

U. S. NAVAL AMMUNITION DEPOT
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From: Commanding Officer, U. S. Naval Ammunition Depot, Crane, Indiana
To: National Aeronautics and Space Administration, Goddard Space Flight Center, Electrochemical Power Sources Section (636.2), Space Power Technology Branch, Greenbelt, Maryland 20771

Subj: Monthly Progress Report on National Aeronautics and Space Administration Space Cell Test Program; submission of

Encl: (1) Monthly Progress Report as of 31 January 1965 (3 copies)

1. The progress report for National Aeronautics and Space Administration purchase order W11,252B on the space cell test program is submitted as enclosure (1).

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MONTHLY PROGRESS REPORT THROUGH 31 JANUARY 1965

LIFE CYCLE TESTS

1. Status of Cycling Program: The cycling program has included cells from the following manufacturers: General Electric Company (G.E.), Gould-National Batteries, Inc. (Gould), Sonotone Corporation (Sonotone), Yardney Electric Corporation (Yardney), Gulton Industries, Inc. (Gulton) and Delco Remy (Delco).

TOTAL NUMBER OF PACKS PLACED IN PROGRAM: 104.

Cell Type	Total Number of Packs			Cells Failed*	
	Cycled To Date	Still Cycling	Failed	Since Last Report	Total To Date
NICKEL CADMIUM (10-cell packs)					
G.E. 3.0 ah	12	9	3	0	23
Gould 3.5 ah	12	5	7	1	50
Sonotone 5.0 ah	12	11	1	2	19
Gulton 6.0 ah	12	6	6	1	57
TOTAL	48	31	17	4	149
NICKEL CADMIUM (5-cell packs)					
G.E. 12 ah	13	11	2	1	7
Gulton 4.0 ah	6	6	0	0	0
Gulton 6.0 ah	1	1	0	0	2
Gulton 12 ah	5	5	0	0	0
Gulton 20 ah	12	6	6	0	23
Gulton 50 ah	2	1	1	0	5
Gould 20 ah	12	7	5	0	18
TOTAL	51	37	14	1	55
SILVER CADMIUM (10-cell packs)					
Yardney 12 ah	2	0	2	0	16
TOTAL	2	0	2	0	16
SILVER ZINC (5-cell packs)					
Delco 25 ah	2	1	1	0	5
Delco 40 ah	1	1	0	0	2
TOTAL	3	2	1	0	7

* All failure analysis results are cumulative. These results are shown on pages 4 through 29.

Enclosure (1)

2. Test Parameters:

a. Ambient Temperatures:

(1) 0° C.

(2) 25° C.

(3) 40° C.

b. Voltage limits per pack on charge:

(1) 1.55 ± 0.03 volts per cell at 0° C.

(2) 1.49 ± 0.03 volts per cell at 25° C.

(3) 1.45 ± 0.03 volts per cell at 40° C.

(4) 1.97 ± 0.03 volts per cell at 25° C. on the silver zinc packs.

c. Depth of Discharge:

(1) 90-minute and 3-hour orbits:

(a) 15 percent and 25 percent at 0° C.

(b) 25 percent and 40 percent at 25° C.

(c) 15 percent and 25 percent at 40° C.

(2) 24-hour orbits:

(a) 50 percent at 0° C, 25° C and 40° C.

(b) 40 percent at 25° C on the silver zinc packs.

d. Orbit Times:

(1) 90 minutes--30-minute-discharge and 60-minute charge.

(2) 3 hours--30-minute discharge and 150-minute charge.

(3) 24 hours--1-hour discharge and 23-hour charge.

3. Data:

a. Normal operation schedules complete data to be recorded on 90-minute and 3-hour packs every 32 cycles. On 24-hour cycles, complete data is taken every eight cycles.

b. The attached data sheets give end of discharge and end of charge voltage readings for each cell on each cycle recorded.

4. Capacity Tests:

a. Prior to cycling, each pack was given a capacity test at its respective cycling temperature. This check consisted of a c/10 charge for 16 hours followed by a c/2 discharge to 1.0 volt/cell average. After each 88 days of cycling, each pack was discharged at the c/2 rate to 1.0 volt/cell average following a charge at the cycle rate. The pack was then recharged at the c/10 rate for 16 hours and discharged at the c/2 rate to 1.0 volt/cell average. The pack was then recharged at the c/10 rate for 48 hours, voltage limited to the cycle limits. Data of capacity tests is tabulated on pages 30 through 33.

Failure Analysis							
Cell Number	Depth of Discharge (%)	Orbit Period (hours)	Test Temperature (°C)	Cell Number	Position	Cell Type	General Electric 3.0 Ampere-Hour
							Cycles Failed Cell Sets Failed Cell Sets in Pack Failure Analysis
16	40%	1.5	25°	427	7	3985	Low Volt Disch, Normal Volt Chg, Pos Tab Broken and Touching Case. Burned Tape on Tab Caused by Overheating From Poor Tab Weld.
			25°	58	6	4473	Low Volt Disch, Normal Volt Chg, Short on One Edge of Plates, Neg Plate Material Penetrated Separator.
			25°	361	1	4741	Low Volt Disch, Normal Volt Chg, Shorted, Separator Deteriorated, Neg Plate Material Penetrated Separator.
			25°	522	5	*4917	Low Volt Disch, Low Volt Chg, Separator Impregnated with Neg Plate Material, Separator Deteriorated.
			25°	456	10	*4917	Low Volt Disch, Low Volt Chg, Separator Impregnated with Neg Plate Material, Separator Deteriorated.
			25°	719	4	*5013	Low Volt Disch, Low Volt Chg, Separator Impregnated with Neg Plate Material, Separator Deteriorated, Several Small Burned Areas on Separator.
			50°	541	2	779	Low Volt Disch, High Volt Chg, Leaked, Shorted at Top of Core, Separator Too Short, Pos Tab Burned.
			40°	540	6	2083	Low Volt Disch, High Volt Chg, Leaked, Shorted at Top of Core, Separator Too Short, Pos Tab Burned.
			40°	549	7	2523	Low Volt Disch, High Volt Chg, Pos Tab Burned.

* FAILED DURING THIS REPORTING PERIOD.

Failure Analysis							
Cell Number	Pack	Orbit Period (hours)	Test Temperature	Cell Number	Pack	Orbit Period (hours)	Test Temperature
40	25%	1.5	40°	464	3	2073	Low Volt Disch, High Volt Chg, Shorted at Top of Core, Separator Too Short, Pos Tab Burned.
				3131	8	2182	Low Volt Disch, Normal Volt Chg, Leaked, Loose Plate Material on Separator.
				47	7	2182	Low Volt Disch, High Volt Chg, Shorted at Top of Core, Separator Too Short, Pos Tab Burned and Broken.
				49	5	2446	Low Volt Disch, High Volt Chg, Pos Weld to Terminal Stud Burned, Poor Weld.
				45	10	2461	Low Volt Disch, High Volt Chg, Loose Plate Material on Separator, Short at Outside End of Pos Plate.
				466	2	2509	Low Volt Disch, High Volt Chg, Leaked, Pos Tab Burned and Shorted to Neg Tab.
				441	6	2509	Low Volt Disch, High Volt Chg, Leaked, Shorted at Top of Core, Separator Too Short, Pos Tab Burned.
				416	4	1182	Low Volt Disch, Low Volt Chg, Shorted at Top of Core, Separator Too Short, Pos Tab Burned.
				499	3	1515	Low Volt Disch, High Volt Chg, Shorted at Top of Core, Separator Too Short, Pos Tab Burned and Broken.
				412	6	1911	Showed Open Circuit at Start of Cycle, Pos Tab Broken, Burned Tape on Tab Caused by Overheating From Poor Tab Weld.
43	15%	3.0	40°	426	9	*2298	Showed Open at Start of Cycle, Pos Tab Corroded, Pos Tab Broken, Top of Separator Burned, Separator Impregnated with Neg Plate Material, Separator Deteriorated.

CELL TYPE: General Electric 3.0 Ampere-Hour						
FAILURE ANALYSIS						
PACK NUMBER	43	436	7	*2515	Showed Open at Start of Cycle, Pos Tab Corroded, Pos Tab Broken, Poor Roll, Uneven Wind at End of Roll, Shorts at Top of Roll, Separator Deteriorated.	
TEST TEMPERATURE				*2656	Showed Open at Start of Cycle, Pos Tab Corroded, Pos Tab Broken, Separator Impregnated with Neg Plate Material, Separator Deteriorated.	
ORBIT PERIOD (HOURS)	15%	3.0	40°	1672	Showed Open Circuit at Start of Cycle, Pos Tab Broken, Burned Tape on Tab Caused By Overheating From Poor Tab Weld.	
DEPTH OF DISCHARGE	25%	3.0	40°			
CYCLES COMPLETED						
POSITION IN PACK						
CELL NUMBER						
TEST TEMPERATURE						
ORBIT PERIOD (HOURS)						
DEPTH OF DISCHARGE						
PACK NUMBER	44	222	6			

PACK NUMBER	DEPTH OF DISCHARGE (%)	ORBIT PERIOD (HOURS)	TEST TEMPERATURE (°C)	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: Gould 3.5 Ampere-Hour FAILURE ANALYSIS	TEST RESULTS	
								TEST VOLTAGE (mV)	TEST CAPACITY (AH)
3	25%	1.5	25°	73	5	2785	Low Volt Disch, High Volt Chg, Short Near Center of Core, Piece of Pos Plate Material Between Plates Causing Short Through Separator.	3.4	3.5
			25°	54	2	3090	Low Volt Disch, Low Volt Chg, Leaked, Lost 1.7 gm, Weak Weld on Neg Tab to Plate.	3.4	3.5
			25°	165	9	4081	Low Volt Disch, Normal Volt Chg, Leaked, Lost 1.7 gm, Deposit on Glass Seal, Short Through Separator, Short at Pos Tab Near Center of Core, Neg Tab Weld to Plate Weak.	3.4	3.5
			25°	93	6	4289	Low Volt Disch, Normal Volt Chg, Leaked Around Glass Seal, Lost 2.6 gm, Separator Deteriorated, Neg Plate Material Penetrated Separator.	3.4	3.5
			25°	97	7	4401	Low Volt Disch, Normal Volt Chg, Leaked Around Glass Seal, Lost 2.5 gm, Separator Deteriorated, Neg Plate Material Penetrated Separator.	3.4	3.5
	25%	1.5	25°	77	4	4751	Low Volt Disch, Normal Volt Chg, Separator Deteriorated, Separator Impregnated with Neg Plate Material, Blistering on Pos Plates.	3.4	3.5
			25°	188	10	4751	Low Volt Disch, Normal Volt Chg, Leaked, Lost 2.1 gm, Neg Plate Material on Separator.	3.4	3.5
			25°	25°	81	1609	Low Volt Disch, Normal Volt Chg, Leaked, Lost 3.2 gm, High Pres Bulge Top.	3.4	3.5
			25°	90	8	1827	Low Volt Disch, Low Volt Chg, Leaked, Lost 2.7 gm, High Pres Bulge Top.	3.4	3.5
			25°	2	1	2110	Low Volt Disch, Low Volt Chg, Separator Deteriorated at Center of Core, Under Pressure When Opened.	3.4	3.5

PACK NUMBER	DISCHARGE DEPTH OF DISCHARGE (%)	TEST TEMPERATURE (HOURS)	CELL NUMBER	CELL TYPE: <u>Gould 3.5 Ampere-Hour</u>	COMPLETION CYCLES		FAILURE ANALYSIS
					TEST POSITION IN PACK	NUMBER OF CYCLES	
4	40%	1.5	43	6	2954	Low Volt Disch, Low Volt Chg, Leaked, Lost 1.3 gm, Plate Material on Separator.	
8	40%	3.0	27	3	3029	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, Separator Deteriorated.	
			198	10	3164	Low Volt Disch, Low Volt Chg, Leaked, Lost 1.6 gm, Separator Deteriorated, Pos Plate Material Between Plates.	
			68	6	1346	Low Volt Disch, Low Volt Chg, Leaked, Lost 1.5 gm, Plate Material on Separator.	
			112	8	1704	Low Volt Disch, Normal Volt Chg, Leaked, Lost 2.0 gm, Pos Tab Weld to Bottom of Can Weak, Pos Tab Weld to Plate Weak.	
			39	1	1985	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, Separator Deteriorated, Neg Plate Material on Separator.	
			170	10	1985	Low Volt Disch, Normal Volt Chg, Leaked, Lost 1.8 gm, Pos and Neg Tab Weld Weak to Plates Near Center of Core, Separator Deteriorated at Center of Core.	
			78	7	2138	Low Volt Disch, Low Volt Chg, Leaked Around Glass Seal, Lost 1.4 gm, Pos Tab Weld to Case Weak, Separator Deteriorated, Neg Plate Material Penetrated Separator.	
			41	2	2494	Low Volt Disch, Low Volt Chg, Leaked Around Glass Seal, Lost 1.7 gm, Separator Deteriorated, Neg Plate Material Impregnated Separator, One Bad Weld Neg Tab to Plate.	
			130	9	2494	Low Volt Disch, Low Volt Chg, Leaked Around Glass Seal, Lost 2.1 gm, Separator Deteriorated, Pos and Neg Plate Material Impregnated Separator.	

TEST NUMBER	CELL NUMBER	DISCHARGE DEPTH (%)	ORBIT PERIOD (hours)	TEST TEMPERATURE (degrees)	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS	CELL TYPE: Gould 3.5 Ampere-Hour			
27	15%	1.5	1.5	40°	13	3	2901	Low Volt Disch, Low Volt Chg, Leaked, Lost 1.5 gm, Separator Deteriorated, Pos Plate Material on Separator.				
				40°	195	8	2901	Low Volt Disch, Normal Volt Chg, Leaked, Lost 3.6 gm, Short Through Separator, Separator Burned at Center of Core, Pos Plate Material on Separator.				
				40°	103	7	2998	Low Volt Disch, Normal Volt Chg, High Pres, Short Through Separator, Pieces of Pos Plate Material Between Plates.				
				40°	200	10	3270	Low Volt Disch, Normal Volt Chg, Leaked, Lost 2.5 gm, Short Through Separator, Separator Deteriorated at Center of Core, Pos Tab Weld to Case Weak.				
				40°	197	9	4102	Low Volt Disch, High Volt Chg, Leaked Around Glass Seal, Lost 1.4 gm, Short at Pos Tab, Separator Deteriorated, Neg Plate Material Penetrated Separator.				
				40°	11	2	4885	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, Separator Deteriorated, Separator Impregnated with Neg Plate Material.				
				50°	122	2	408	Low Volt Disch, Normal Volt Chg, Leaked, Lost 1.8 gm, Weak Bottom Weld Suspicious Spot but not Definite.				
				40°	157	7	484	Low Volt Disch, Normal Volt Chg, Leaked, Lost 2.0 gm, High Pres Bulge.				
				40°	158	8	484	Low Volt Disch, Normal Volt Chg, Leaked, Lost 1.9 gm, High Pres Bulge Top.				
				40°	141	5	860	Low Volt Disch, High Volt Chg, Leaked, Lost 3.5 gm.				
				40°	168	10	1293	Low Volt Disch, High Volt Chg, Weak Weld to Bottom of Case.				

PACK NUMBER	DEPTH OF DISCHARGE (%)	OPERATING PERIOD (HOURS)	TEST TEMPERATURE (°C)	TEST NUMBER	POSITION IN PACK	COMPLETED CYCLES	CELL TYPE:	Gould 3.5 Ampere-Hour
							FAILURE ANALYSIS	
28	25%	1.5	40°	121	1	1811	Low Volt Disch, Low Volt Chg, Short at Outside End of Plates, Grid Wire Penetrated Separator.	
			40°	133	3	1811	Low Volt Disch, High Volt Chg, Weak Weld on Pos Tab to Case.	
			40°	140	4	1811	Low Volt Disch, Low Volt Chg, Short Around Pos Tab, Blistering on Pos Plate, Active Neg Plate Material on Separator.	
			40°	155	6	1811	Low Volt Disch, Low Volt Chg, Short Through Separator, Weak Weld to Bottom of Case.	
			40°	163	9	1811	Low Volt Disch, Low Volt Chg, Short Through Separator, Weak Weld to Bottom of Case, Deposit on Glass Seal.	
			40°	R166	9	1500	Low Volt Disch, Low Volt Chg, Leaked, Lost 7.1 gm, Separator Deteriorated.	
			40°	R179	10	1500	Low Volt Disch, Low Volt Chg, Leaked, Lost 1.5 gm, Short Through Separator, Separator Deteriorated, One Weak Tab.	
			40°	R92	2	1696	Low Volt Disch, High Volt Chg, Pieces of Plate Material Shorted Through Separator, Separator Deteriorated.	
			40°	126	3	2411	Low Volt Disch, Low Volt Chg, Leaked Around Glass Seal, Lost 2.1 gm, Short Through Separator by Piece of Pos Plate Material Between Plates, Separator Deteriorated, Neg Plate Material Impregnated Separator, Tab to Plate Weld Poor.	
			40°	R162	8	2477	Low Volt Disch, High Volt Chg, Leaked Around Glass Seal, Lost 2.4 gm, Separator Deteriorated, Neg Plate Material Impregnated Separator, Pinpoint Penetration, Poor Weld Pos Tab to Case.	
			40°	72	1	*2517	Low Volt Disch, Low Volt Chg, Leaked Around Glass Seal, Lost 1.8 gm, Short Between Plates, Extra Piece of Pos. Plate Between Plates, Separator Deteriorated, Pos Tabs to Plate Weld Both Weak.	

PACK NUMBER	DEFTY OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	CELL TYPE	Gould 3.5 Ampere-Hour	FAILURE ANALYSIS	
							CYCLES COMPLETED	H/I PACK POSITION
31	15%	3.0	40°	143	6	*2517	Low Volt Disch, Low Volt Chg, Short Through Separator at Start of Core, Extra Piece of Pos Plate Material, Separator Impregnated with Neg Plate Material, Separator Deteriorated, Neg Tab Weld to Pigtail Weak, One Tab to Pos Plate Weld Weak, Still Under Pressure When Opened.	
32	25%	3.0	40°	125	6	138	Low Volt Disch, Normal Volt Chg, Bottom Weld Weak, Greenish Corrosion Inside at Neg Lead.	
			40°	65	3	495	Low Volt Disch, Normal Volt Chg, Leaked, Lost 1.5 gm, Bad Glass Seal Around Neg Terminal.	
			40°	1	1	800	Low Volt Disch, Normal Volt Chg, Leaked, Lost 3.2 gm, Shorts Near Center of Core.	
			40°	67	4	875	Low Volt Disch, Low Volt Chg, Leaked, Lost 2.2 gm, Short Around Tabs, Pos Tab Weld Weak to Case.	
			40°	132	7	875	Failed During Shut Down to Move to Another Chamber, Leaked, Lost 4.4 gm, High Pres. Neg Tabs Pushed Out of Cell, Short at Center and Outside Edge of Core.	
			40°	149	9	974	Low Volt Disch, High Volt Chg, Leaked, Lost 1.1 gm, Piece of Pos Plate Material Shorted Through Separator, Weak Welds to Case and Plates.	

Failure Analysis							
	Cell Type:	Sonotone 5.0 Ampere-Hour					
Failure	Analysis						
Cycle Number	Cell Number	Test Temperature (degrees)	Orbit Period (hours)	Depth of Discharge	Cell Position	Complete Cycles	Failure Analysis
1	25%	1.5	25°	2995	IN PACK	4	Low Volt Disch, High Volt Chg, Inclusion on Surface of Outside Pos Plate Wore Hole Through Separator and Thin Outside Wrap, Separator Sticking to Neg Plate, Glass Seal Leaked.
				4423	IN PACK	1	Low Volt Disch, High Volt Chg, Neg Tabs Weak Weld to Plates, Separator Melted at Center of Core, Extreme Pressure Points on Separator From Scoring Causing High Resistance Shorts.
2	40%	1.5	25°	811	3155	10	Shorted on Cycling, Leaked Around Seal, High Pressure Bulge on Bottom, Insulators Brittle, Exposed Grid Wires at Center of Core Penetrated Separator Causing Large Burned Area at Short, Pos and Neg Tab Weld Poor.
				3628	3992	5	Low Volt Disch, Normal Volt Chg, Leaked Around Seal, High Pres Bulge on Bottom, Hole in Separator Exposing Pos and Neg Plates, Neg Plate Material Penetrated Separator.
				3613	4411	2	Low Volt Disch, Low Volt Chg, Two Pieces of Neg Plate Material Wore Hole in Separator at Scoring Mark, Burned Through Plates, Neg Tab Welds Poor, Separator Beginning to Deteriorate.

Failure Analysis							
Cell Type:	Sonotone 5.0 Ampere-Hour						
Cell Number	Depth of Discharge (hours)	Temperature (°C)	Test Number	Cell Position	Cell Condition	Cycles Completed	Failure Analysis
6	40%	3.0	4324	25°	8	1069	Low Volt Disch, Normal Volt Chg, Separator Impregnated With Active Material, Separator Sticking to Neg Plate.
			6904	25°	10	1136	Low Volt Disch, Low Volt Chg, Small Hole in Separator at Start of Coil, Pos Plate Edge Broken Allowing Grid Wire to Penetrate Separator.
			3637	25°	4	1161	Grid Wires of Pos Plate Penetrated Separator and Shorted to Neg Plate, Active Plate Material Penetrated Separator at Three Points, Bad Tab Welds.
			26	25%	1.5	4323	Grid Wire Penetrated Separator at Tabs.
				40°	6773	1	2487
				40°	9	2902	Shorted on Cycling, Slight Burn Adjacent to Neg Tab, Separator Deteriorated, Neg Plate Material Penetrated Separator, Tab Welds Weak.
				40°	7224	6	2993
				40°	7232	7	Low Volt Disch, Normal Volt Chg, High Pres Bulge, Deposit Around Seal, Neg Tab Weld Weak, Neg Plate Material Penetrated Separator.
				40°	4881	3	2993
				40°	4240	4	Low Volt Disch, Low Volt Chg, Separator Deteriorated, Plate Material Penetrated Separator.
							3344
							Shorted on Cycling, Complete Short From Deep Scoring, Plate Shorted Through Outer Wrap.
							3625

				CELL TYPE:	Sonotone 5.0 Ampere Hour
				FAILURE ANALYSIS	
					Shorted on Cycling, Neg Tab Welds Poor, Active Plate Material Penetrated Separator at Scoring Marks.
				COMPLETED CYCLES	
				TEST NUMBER	
				POSITION IN PACK	
				TEST TEMPERATURE	
				ORBIT PERIOD (HOURS)	
				DEPTH OF DISCHARGE	
29	15%	3.0	40°	3.0	
30	25%	3.0	40°	3657	
49	15%	1.5	0°	6887	
					855 Hole in Separator Allowing Pos Plate to Hit Case, Separator Damaged at Center of Cell Allowing Pos and Neg Plate to Short Together.
					2010 Low Volt Disch, Low Volt Chg, Burn on Separator Opposite Pos Tab.

TEST NUMBER	DISCHARGE DEPTH OF	TEST TEMPERATURE (HOURS)	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS	CELL TYPE: Gulton 6.0 Ampere-Hour
							CELL TYPE: Gulton 6.0 Ampere-Hour
13	25%	1.5	2305	1	308	Low Volt Disch, High Volt Chg, Lost 12 gm, CO ₃ Top Ceramic, High Pres Bulge.	
			2355	10	502	Low Volt Disch, High Volt Chg, Lost 10 gm, High Pres Bulge.	
			3134	5	2969	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plates.	
			3211	7	3084	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plates.	
			2613	4	3598	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plate, Separator Deteriorated.	
			2324	2	4021	Low Volt Disch, Low Volt Chg, Ceramic Short, Separator Deteriorated, Separator Impregnated with Neg Plate Material, Blistering on Pos Plates, High Pres Bulge.	
			1623	4	262	Low Volt Disch, High Volt Chg, Lost 12 gm, High Pres Bulge.	
14	40%	1.5	25°	1635	5	262 Voltage Fell Off During Charge, Went Flat in 3 Min. on Disch, Lost 6 gm, Concave Wall, High Pres. Bulge, Ceramic Broken Inside Case, CO ₃ on Outside of Ceramic, Pos Terminal Loose.	
			2356	1	450	Low Volt Disch, High Volt Chg, Lost 12 gm, High Pres.	
			2387	2	1113	Low Volt Disch, High Volt Chg, Ceramic Short.	
			2391	3	1618	Low Volt Disch, Low Volt Chg, Ceramic Short.	
			3208	7	2086	Low Volt Disch, Normal Volt Chg, Ceramic Short.	

CELL NUMBER	PACK NUMBER	DEPTH OF DISCHARGE (%)	ORBIT PERIOD (HOURS)	TEST TEMPERATURE (°C)	CELL NUMBER	TEST POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS	CELL TYPE: Gulton 6.0 Ampere-Hour	
									Cell Type	Failure Analysis
17	25%	3.0	25	25°	1862	5	721	Low Volt Disch, High Volt Chg, Ceramic Short.		
				25°	1823	3	721	Low Volt Disch, High Volt Chg, High Pres Bulge, Burnt Spot on Neg Plate Near Bottom Second From End, Ceramic Short.		
				25°	2348	10	1688	Low Volt Disch, Low Volt Chg, Ceramic Short.		
				25°	1757	1	2375	Low Volt Disch, Low Volt Chg, Ceramic Short, Deposit Around Ceramic Seal, High Pres Bulge.		
				25°	1598	2	2449	Low Volt Disch, Low Volt Chg, Pinpoint Penetration of Separator, Blistering on Pos Plate, High Pres Bulge.		
				25°	2347	9	*2885	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plates, High Pressure Bulge, Still Under Pressure When Opened.		
				25°	1826	6	365	Low Volt Disch, Chg Volt Normal, Lost 3 gm, Concave Wall, Ceramic Short.		
				25°	1615	3	608	Low Volt Disch, Normal Volt Chg, Deposit on Top of Pos Terminal, Lost 5.1 gm, High Pres Bulge.		
				25°	1827	7	643	Low Volt Disch, High Volt Chg, High Pres Bulge, Ceramic Short.		
				25°	2228	9	643	Low Volt Disch, High Volt Chg, Ceramic Short.		
				25°	1562	5	1145	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plates.		
				25°	1233	1	1550	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plate, Neg Plate Material on Separator.		

PACK NUMBER	DEPTH OF DISCHARGE (%)	ORBIT PERIOD (HOURS)	TEST TEMPERATURE (°C)	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: Gulton 6.0 Ampere-Hour FAILURE ANALYSIS	Gulton 6.0 Ampere-Hour	
								CELL	PACK
37	15%	1.5	50°	1764	3	238	Low Volt Disch, Volt Did Not Increase on Following Chg, (1.00 V Lost 4 gm, Ceramic Short.		
			40°	1784	8	1566	Low Volt Disch, Low Volt Chg, Lost 10.5 gm, Ceramic Short.		
			40°	1802	4	2819	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plate.		
			40°	2333	10	2981	Low Volt Disch, Normal Volt Chg, Ceramic Short, Blistering on Pos Plates.		
			40°	1769	7	*4897	Low Volt Disch, Normal Volt Chg, Ceramic Short, Leaked, Lost 1 gm, Blistering on Pos Plate, Separator Deteriorated.		
38	25%	1.5	50°	1454	8	37	No Volt on Chg or Disch, Ceramic Short.		
			50°	1815	6	114	Volt Fell Off During Disch, Chg Volt Slightly Low, Lost 3.5 gm, Ceramic Short.		
			40°	1853	9	187	Rev on Disch, Chg Volt Normal, Lost 4 gm, Deposits Around Pos Terminal (Outside), Ceramic Short.		
			40°	1627	3	225	Low Volt Disch, High Volt Chg on Cycle 219, Dead on 225, Lost 3.5 gm.		
			40°	2405	5	1333	Low Volt Disch, Normal Volt Chg, Pos Bus Shorted to Case.		
			40°	1626	2	1377	Low Volt Disch, Low Volt Chg, High Pres Bulge, Ceramic Short.		

CELL TYPE: Gulton 6.0 Ampere-Hour								
TEST NUMBER	DISCHARGE DEPTH (%)	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS	
							CELL TYPE	TEST NUMBER
41	15%	3.0	40°	1771	9	649	Low Volt Disch, High Volt Chg, Ceramic Short.	
			40°	1801	6	1062	Low Volt Disch, Normal Volt Chg, Ceramic Short.	
			40°	3135	2	1132	Low Volt Disch, Normal Volt Chg, Ceramic Short.	
			40°	1852	7	1157	Low Volt Disch, Normal Volt Chg, Ceramic Short, Blistering on Pos Plates.	
			40°	2221	8	1157	Low Volt Disch, Normal Volt Chg, Ceramic Short.	
			40°	1632	3	1689	Low Volt Disch, Normal Volt Chg, Ceramic Short, Blistering on Pos Plates.	
			40°	50°	2309	8	96	Low Volt Disch, Normal Volt Chg, Ceramic Short.
			40°	2346	7	382	Low Volt Disch, Low Volt Chg, CO ₂ on Bottom of Case, Ceramic Short.	
			40°	2306	9	416	Low Volt Disch, High Volt Chg, Ceramic Short.	
42	15%	3.0	40°	918	1	484	Low Volt Disch, Low Volt Chg, High Pres Bulge, Deposit on Bottom of Case, Ceramic Short, Lost 3.1 gm.	

CELL TYPE: Gulton 6.0 Ampere-Hour						
FAILURE ANALYSIS						
PACK NUMBER	DISCHARGE DEPTH OF	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED
61	15%	1.5	0°	1622	2	1
			0°	1845	8	6
			0°	2397	5	2762
			0°	1825	4	4094
			0°	2311	10	4285
			0°	2400	6	4413
			25%	1.5	0°	62
			0°	1630	10	2995
			0°	1792	4	4066
			0°	1806	5	4441

CELL TYPE: Gulton 6.0 Ampere-Hour							
PACK NUMBER	DEPTH OF DISCHARGE (%)	ORBIT PERIOD (HOURS)	TEST TEMPERATURE (°)	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
							CELL TYPE TEST TEMPERATURE (°) POSITION IN PACK CYCLES COMPLETED FAILURE ANALYSIS
66	25%	3.0	0°	1794	6	1045	Low Volt Disch, High Volt Chg, High Pres Bulge, Concave Side, Ceramic Broken, No Seal, Lost 5.1 gm, Pos Bus Against Case.
			0°	1843	8	1173	Low Volt Disch, Low Volt Chg, Wall Concave, Ceramic Short.
			0°	1781	5	1237	Low Volt Disch, High Volt Chg, High Pres Bulge, Deposit Around Pos Terminal, Ceramic Broken on Pos Terminal, Blisters on Pos Plate, Burnt Spot on Separator at Blisters, Lost 1.3 gm.
			0°	1634	3	1417	Low Volt Disch, Normal Volt Chg, Ceramic Short, High Pres Bulge, One Side Concave Other Convex, Pos Plates Blistered, Lost 2.3 gm.
			0°	1823	7	2122	Low Volt Disch, Low Volt Chg, Leaked, Lost 7.8 gm, Separator Impregnated with Neg Plate Material, Blistering on Pos Plates, High Pres Bulge, One Side Concave.

CELL TYPE: General Electric 12.0 Ampere-Hour						
NUMBER PACK	DEPTH OF DISCHARGE	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES TESTED	FAILURE ANALYSIS
93	50%	24.0	40°	204	1	*266 Cell Lost Capacity on Cycling But Came Back When Removed From Pack, So It Was Put Back on Cycling in Same Pack.
96	40%	1.5	40°	208	2	*266 Low Volt Disch, Normal Volt Chg, Was Opened Up But Did Not Show Anything to be Wrong With Cell, Failure Due to Loss of Capacity.
21	25%	1.5	25°	445	3	3822 Low Volt Disch, Low Volt Chg, Separator Penetrated by Neg Plate Material, Pinpoint Shorts Through Separator.
21	25%	1.5	40°	429	3	3841 Shorted on Cycling, Separator Penetrated by Neg Plate Material, Pinpoint Shorts Through Separator, Leaked at Neg Terminal, Epoxy Lifted Up.
124	25%	1.5	40°	432	2	*3841 Failed During Shut Down of Pack, Separator Deteriorated, Separator Impregnated with Neg Plate Material.
				440	1	*4853 Low Volt Disch, Low Volt Chg, Separator Deteriorated, Separator Impregnated with Neg Plate Material.
				410	5	3037 Cell Lost Capacity on Cycling But Came Back When Removed From Pack, So It Was Put Back On Cycling In Same Pack.

CELL NUMBER	PACK NUMBER	DISCHARGE DEPTH OF	OBTAIN FERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	COMPLIFER CYCLES	CELL TYPE: Gulton 20 Ampere-Hour	NOMINAL CAPACITY		NOMINAL CAPACITY
									TEST	NUMBER	TEST
73	25%	1.5	25°	396	3	1776	1184	Low Volt Disch, Low Volt Chg, Leaked, Lost 14.2 gm, Blistering on Pos Plates.	25°	419	3
							1302	Low Volt Disch, Normal Volt Chg, Leaked, Lost 21.9 gm.	25°	440	2
							1754	Low Volt Disch, Normal Volt Chg, Leaked Around Both Terminals, Ceramic Broken on Neg Terminal, Lost 18.0 gm, Neg Plate Material Penetrated Separator, Sides Concaved, Shorting Case to Bus.	25°	468	1
							163	Low Volt Disch, High Volt Chg, High Pres Bulge, Lost 8 gm.	25°	388	2
							208	Low Volt Disch, High Volt Chg, Lost 26.7 gm, Ceramic Short Around Pos Terminal.	25°	394	3
							627	Low Volt Disch, High Volt Chg, Lost 16.4 gm, High Pres Bulge, Deposit on Both Terminals, Ceramic Short, Neg to Case.	25°	454	4
							627	Low Volt Disch, Low Volt Chg, Lost 21.6 gm, Deposit on Both Terminals, Sides Concave Hit Bus on Both Sides.	25°	386	5
							627	Low Volt Disch, Low Volt Chg, Lost 18.1 gm, High Pres Bulge, Burnt Separator 5th or 6th Neg Plate Near Top, Ceramic Short.			

CELL TYPE: Gulton 20 Ampere-Hour								
FAILURE ANALYSIS								
PACK NUMBER	OBTAIN PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	TEST TEMPERATURE	CELL NUMBER	FAILURE ANALYSIS
88	40%	3.0	25°	422	2	151	25°	Low Volt Disch, High Volt Chg, High Pres Bulge, Bottom Ceramic Leak, Lost 25 gm.
				404	1	151	Low Volt Disch, High Volt Chg, High Pres Bulge, Bottom Ceramic Leak, Lost 25 gm.	
				466	3	358	25°	Low Volt Disch, High Volt Chg, High Pres Bulge, Lost 16.4 gm.
				429	5	358	Low Volt Disch, Low Volt Chg, Ceramic Short Around Pos Terminal.	
90	25%	1.5	40°	452	4	2824	25°	Low Volt Disch, Low Volt Chg, Short Through Separator at Top of Plates, High Pres Bulge on Sides, High Pres, Separator Deteriorated.
				457	5	2824	40°	Low Volt Disch, Normal Volt Chg, Short Through Separator, Blistering on Pos Plate, High Pres Bulge on Sides, High Pres.
				378	3	4045	40°	Normal Volt Disch, Went Dead on Chg During Cap Check, Ceramic Short, Separator Completely Deteriorated.
101	15%	1.5	0°	435	2	3111	0°	Low Volt Disch, High Volt Chg, Leaked, Lost 24.6 gm, High Pres Bulge, Separator Very Dry.
				407	5	3111	0°	Low Volt Disch, High Volt Chg, Leaked, Lost 20.4 gm, Separator Very Dry.
				438	4	3629	0°	Low Volt Disch, High Volt Chg, Leaked, Lost 13.2 gm, High Pres Bulge, Sides Concave, Blistering on Pos Plates.

CELL TYPE: Gulton 20 Ampere-Hour						
FAILURE ANALYSIS						
PACK NUMBER	DEPTH OF DISCHARGE (%)	TEST TEMPERATURE (DEGREES)	CELL NUMBER	TEST PERIOD (HOURS)	POSITION IN PACK	CYCLES COMPLETED
102	15%	3.0	0°	449	2	135
115	25%	1.5	0°	490	3	2107
						Low Volt Disch, Normal Volt Chg, Walls Concave, Busses Shorted to Case, Lost 26.9 gm.
				508	2	2203
				0°		High Press Bulge, Blisters on Pos Plate, Busses Shorted to Case.
				467	4	2291
				0°		Black Deposit on Outside on Neg Terminal, High Pres Bulge, Busses Shorted to Case, Blisters on Pos Plate, Burnt Spot on Separator.

PACK NUMBER	DISCHARGE DEPTH (%)	TEST TEMPERATURE (DEGREES CELSIUS)	CELL NUMBER	POSITION IN PACK	COMPLETED CYCLES	FAILURE ANALYSIS	CELL TYPE: Gould 20 Ampere-Hour
							ORBIT PERIOD (HOURS)
98	25%	1.5	0°	77	5	3556	Low Volt Disch, Low Volt Chg, Separator Deteriorated, Neg Plate Material Penetrated Separator, Two Pos Plates Not Welded to Tabs.
104	25%	1.5	25°	69	1	2672	Low Volt Disch, Low Volt Chg, Shorted at Bottom of Pos Plate, Pos Grid Wire Penetrated Separator, Short at Top Between Pos Grid and Neg Tab, High Pressure.
						2826	Low Volt Disch, Low Volt Chg, Short Between Plates, Grid Wire Penetrated Separator, Pos Plate Material Between Plates, High Pressure.
						2980	Low Volt Disch, Low Volt Chg, Separator Completely Deteriorated, Short Between Plates, High Pressure.
						*5005	Low Volt Disch, Low Volt Chg, Short Between Plates, Short About One Inch From Bottom of Plates, Separator Completely Deteriorated, High Pressure.
						40°	Low Volt Disch, Low Volt Chg, Shorted Through Separator, Shorted on Bottom Corner of Plates, Separator Completely Deteriorated, High Pressure.
112	15%	1.5	40°	17	1	1747	Low Volt Disch, Low Volt Chg, Short at Bottom of Pos Plate, Grid Wires Penetrated Separator Where Tape Holds Plates Together, High Pressure.
25						25°	Low Volt Disch, Low Volt Chg, Short at Bottom Corner of Pos Plates, Grid Wires Through Separator, Rough Grid Showing Through at Top and Bottom of Most Plates, High Pressure.
118	40%	1.5	25°	61	2	1963	Low Volt Disch, Low Volt Chg, Shorted at Bottom Corner of Pos Plates, Grid Wires Through Separator, Rough Grid Showing Through at Top and Bottom of Most Plates, High Pressure.
						25°	Low Volt Disch, Low Volt Chg, Short Through Separator on Side of Plates, Pos Plate Material Penetrated Separator, High Pressure.
						2937	Low Volt Disch, Low Volt Chg, Short Through Separator, High Pressure.

Failure Analysis							
Cell Type:		Gould 20 Ampere-Hour					
Failure Analysis							
Cell Number	Test Temperature	Orient Period (hours)	Depth of Discharge	Position in Pack	Cell Number	Test Temperature	Completion Sets
119	40°	3.0	25%	73	5	222	Normal Volt Disch, Low Volt Chg, Short Near Bottom of 5th or 6th Pos, No Obvious Cause.
122	25%	3.0	25°	80	2	1793	Low Volt Disch, Normal Volt Chg, Neg Plate Material Penetrated Separator, High Pressure, Blistering on Pos Plate.
			40°	86	3	1793	Low Volt Disch, Normal Volt Chg, Neg Plate Material Penetrated Separator, High Pressure, Blistering on Pos Plate.
			40°	16	2	801	Low Volt Disch, Low Volt Chg, Blistering on Pos Plates, Separator Deteriorated, Plate Material on Both Sides of Separator, High Pressure.
			40°	58	3	801	Low Volt Disch, Low Volt Chg, Blistering on Pos Plates, Separator Deteriorated, Plate Material on Both Sides of Separator, High Pressure.
			40°	18	5	983	Low Volt Disch, Low Volt Chg, Plate Material Penetrated Separator, Pos Plates Blistered, High Pressure.
126	25%	1.5	40°	9	3	1273	Low Volt Disch, Low Volt Chg, Shorted at Bottom Corner of Neg Plate, Grid Wire Penetrated Separator, Several Other Plates Had Grid Wires Sticking Out, High Pressure.
			40°	R29	4	1509	Low Volt Disch, Low Volt Chg, Shorted at Bottom Corner of Pos Plate, Grid Wire Penetrated Separator, Blistering on Pos Plates, Separator Deteriorated, High Pressure.
			40°	11	5	1569	Low Volt Disch, Low Volt Chg, Shorted on Side of Pos Plate, Grid Wire Penetrated Separator, High Pressure.

CELL TYPE: Gulton 50 Ampere-Hour					
FAILURE ANALYSIS					
COMPLETED CYCLES	1873	1873	Low Volt Disch, Low Volt Chg, Separator Decomposed, Hot Spots Through Separator Shorted Out Several Plates, High Pres Bulge, Still Under Pressure When Opened.		
POSITION IN PACK	2	3	Went Dead During Shutdown, Separator Decomposed, Several Small Hot Spots on Each Plate, Outside Neg Plates Stuck to Case, High Pres Bulge, Deposit Around Ceramic Seal of Pos Terminal.		
CELL NUMBER	119	118			
TEST TEMPERATURE	40°	40°			
ORBIT PERIOD (HOURS)	1.5				
DEPTH OF DISCHARGE	15%				
PACK NUMBER	123				

CELL TYPE: Yardney 10 x YS-12								
PACK NUMBER	DEPTH OF DISCHARGE (%)	ORBIT PERIOD (HOURS)	TEST TEMPERATURE (°C)	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS	
33	50%	24	40°	3	58	58	Leaked, Dried Out	
			40°	2	126	126	Leaked, Dried Out	
			40°	1	152	152	Leaked, Dried Out	
			40°	8	197	197	Leaked, Dried Out	
			40°	4	210	210	Leaked, Dried Out	
			40°	10	210	210	Leaked, Dried Out	
			0°	1	162	Leaked, Electrolyte Shorted Out Cell		
			0°	2	162	162	Leaked, Electrolyte Shorted Out Cell	
			0°	10	162	162	Leaked, Electrolyte Shorted Out Cell	
			0°	3	166	166	Leaked, Electrolyte Shorted Out Cell	
			0°	4	166	166	Leaked, Electrolyte Shorted Out Cell	
			0°	5	166	166	Leaked, Electrolyte Shorted Out Cell	
			0°	6	166	166	Leaked, Electrolyte Shorted Out Cell	
			0°	7	166	166	Leaked, Electrolyte Shorted Out Cell	
			0°	8	166	166	Leaked, Electrolyte Shorted Out Cell	
			0°	9	166	166	Leaked, Electrolyte Shorted Out Cell	

<u>CELL TYPE:</u>	Delco 25 Ampere-Hour
<u>FAILURE ANALYSIS</u>	Cell Blew-up, Pack Returned to Manufacturer
<u>CYCLES COMPLETED</u>	32
<u>POSITION IN PACK</u>	
<u>CELL NUMBER</u>	
<u>TEST TEMPERATURE</u>	25°
<u>ORBIT PERIOD (HOURS)</u>	24
<u>DEPTH OF DISCHARGE</u>	40%
<u>PACK NUMBER</u>	75

AMPERE-HOUR CAPACITIES ON
PRECONDITIONING CYCLES AND CAPACITY CHECKS

TYPE	DEPTH OF DISCHARGE	TEMP. °C.	ORBIT PERIOD	DISCHARGE AMPERE-HOURS*						
				(1)	(2)	(3)	(4)	(5)	(6)	(7)
G.E. 3 A.H.	15	0	90 Min	3.48		3.18	3.12	3.05	3.03	
	25	0		3.50		3.33	3.70	3.38	3.35	
	25	25		4.00		3.38	2.93	2.23	1.95	
	40	25		4.08		2.75	2.10	1.33	FAILED: CYCLE 5C13	
	15	50/40		1.65	2.43 (779)	2.10	1.53	1.25	1.17	
	25	50/40		1.80	2.50 (1440)	0.81 **	0.58	PACK FAILED: CYCLE 2509		
G.E. 3 A.H.	15	0	3 Hrs	3.63		3.25	3.40	3.53	3.97	
	25	0		3.50		3.35	3.53	3.40	3.27	
	25	25		3.93		3.78	3.48	3.15	3.00	
	40	25		3.78		3.00	2.35	2.07	1.83	
	15	50/40		1.77	2.63 (320)	2.20	1.61	1.65	FAILED: CYCLE 2656	
	25	50/40		1.60	2.00 (327)	1.35	1.19	1.15	1.10	
Gould 3.5 A.H.	15	0	90 Min	3.62		4.00	3.33	3.41	3.21	
	25	0		3.33		3.85	3.53	3.18	3.30	
	25	25		4.00		3.82	2.92	2.25	FAILED: CYCLE 4751	
	40	25		3.94		3.38	2.77	PACK FAILED: CYCLE 3164		
	15	50/40		1.52	2.63 (779)	2.07	1.95	1.90	FAILED: CYCLE 4485	
	25	50/40		1.55	2.07 (424)	2.95	PACK FAILED: CYCLE 1211			
Gould 3.5 A.H.	15	0	3 Hrs	3.27		3.59	3.15	3.28	3.33	
	25	0		3.50		3.91	3.53	3.65	3.41	
	25	25		4.32		4.03	3.79	3.53	2.77	
	40	25		4.29		3.68	3.35	3.03	FAILED: CYCLE 2494	
	15	50/40		1.60	1.31 (328)	1.75	1.98	2.16	FAILED: CYCLE 2534	
	25	50/40		1.55	1.66 (495)	1.49	PACK FAILED: CYCLE 2257			
Sonotone 5 A.H.	15	0	90 Min	5.45		5.54	5.50	4.96	4.73	
	25	0		5.64		4.96	4.58	4.25	3.79	
	25	25		5.42		3.67	2.33	2.28	2.79	
	40	25		6.42		4.38	4.17	3.25		
	15	50/40		3.09	3.63 (703)	2.25	1.83	2.04		
	25	50/40		3.17	3.17 (445)	2.75	2.13	FAILED: CYCLE 3025		
Sonotone 5 A.H.	15	0	3 Hrs	5.67		5.79	5.67	5.42		
	25	0		4.92		3.96	3.96	4.13	3.96	
	25	25		5.71		4.58	3.04	2.04		
	40	25		5.83		4.50	3.29	3.25		
	15	50/40		3.33	4.92 (223)	2.75	2.38	2.12		
	25	50/40		3.75	3.50 (183)	1.89	2.98	2.38		

- * (1) Initial Preconditioning.
- (2) Preconditioning at Change to 40° C. Number of cycles completed at 50° C. is in parentheses.
- (3) Capacity check after First 88 days of cycling. (** Still at 50° C.)
- (4) Capacity check after Second 88 days.
- (5) Capacity check after Third 88 days.
- (6) Capacity check after Fourth 88 days.
- (7) Capacity check after Fifth 88 days.

AMPERE-HOUR CAPACITIES ON
PRECONDITIONING CYCLES AND CAPACITY CHECKS

TYPE	DEPTH OF DISCHARGE	TEMP. °C.	ORBIT PERIOD	DISCHARGE AMPERE-HOURS*						
				(1)	(2)	(3)	(4)	(5)	(6)	(7)
Gulton 6 A.H.	15	0	90 Min	5.00		5.10	5.40	4.45	3.15	
	25	0		5.00		4.75	3.80	4.35	3.55	
	25	25		5.80		2.75	2.85	2.70	FAILED: CYCLE 4021	
	40	25		6.40		3.45	PACK FAILED:	CYCLE 2086		
	15	50/40		2.75	3.60 (239)	1.70	2.95	1.85		
	25	50/40		2.65	2.90 (114)	1.55	PACK FAILED:	CYCLE 1377		
Gulton 6 A.H.	15	0	3 Hrs	4.50		5.45	5.35	5.15	5.04	
	25	0		4.25		5.00	3.50	2.50	3.20	
	25	25		5.80		3.65	3.45	2.50	2.30	FAILED: 2885
	40	25		4.55		4.95	3.16	PACK FAILED:	CYCLE 1550	
	15	50/40		2.75	4.55 (239)	2.05	1.63	PACK FAILED:	CYCLE 1687	
	25	50/40		2.60	3.80 (96)	2.15	2.10	2.35		
G.E. 12 A.H.	15	0	90 Min	13.9		12.7	10.4	13.0	12.5	
	25	0		14.2		13.5	12.9	12.8	11.4	
	25	25		15.2		8.00	5.55	5.50		
	40	25		14.8		6.00	7.65	PACK FAILED:	CYCLE 4020	
	15	50/40		6.80	8.20 (334)	5.00	4.70	5.00		
	25	50/40		6.90	6.00 (195)	4.90	5.20	4.40	FAILED: CYCLE 4853	
G.E. 12 A.H.	15	0	3 Hrs	14.2		13.2	10.7	11.0	12.1	
	25	0		14.6		13.0	12.1	11.9	12.2	
	25	25		15.2		11.7	8.20	6.13	5.20	
	40	25		14.9		5.60	5.86	7.90	5.20	
	15	50/40		7.10	8.20 (205)	6.30	3.70	4.00		
	25	50/40		7.00	9.80 (70)	3.80	4.70	5.70		
Gould 20 A.H.	15	0	90 Min	22.5		27.7	26.5	24.2		
	25	0		23.0		21.2	15.2	12.7		
	25	25		25.0		18.5	14.0	PACK FAILED:	CYCLE 2980	
	40	25		24.7		23.3	PACK FAILED:	CYCLE 2987		
	15	50/40		9.67	6.83 (183)	15.7	15.3	12.5		
	25	50/40		9.00	13.9 (1326)	15.2	PACK FAILED:	CYCLE 1574		
Gould 20 A.H.	15	0	3 Hrs	23.0		23.2	21.5	20.3		
	25	0		22.0		17.5	25.0	18.2		
	25	25		23.3		23.5	22.2	21.3		
	40	25		24.8		24.7	21.7	PACK FAILED:	CYCLE 1793	
	15	50/40		9.50	9.67 (47)	11.8	14.8	16.8		
	25	50/40		9.33	7.50 (756)	8.17 **	PACK FAILED:	CYCLE 983		

- * (1) Initial Preconditioning.
- (2) Preconditioning at Change to 40° C. Number of cycles completed at 50° C. is in parentheses.
- (3) Capacity check after First 88 days of cycling. (** Still at 50° C.)
- (4) Capacity check after Second 88 days.
- (5) Capacity check after Third 88 days.
- (6) Capacity check after Fourth 88 days.
- (7) Capacity check after ~~XERO~~ ^{XERO}th 88 days.

AMPERE-HOUR CAPACITIES ON
PRECONDITIONING CYCLES AND CAPACITY CHECKS

TYPE	PERCENT DEPTH OF DISCHARGE	TEMP. °C.	ORBIT PERIOD	DISCHARGE AMPERE-HOURS*						
				(1)	(2)	(3)	(4)	(5)	(6)	(7)
Gulton 20 A.H.	15	0	90 Min	17.2		12.5	5.67	PACK FAILED: CYCLE 3631		
	25	0		17.7		11.2	PACK FAILED: CYCLE 2288			
	25	25		23.3		7.17	9.50	7.83		
	40	25		23.3	PACK FAILED:	CYCLE 627				
	15	50/40		10.3	13.8 (172)	6.50	4.83	5.50		
	25	50/40		9.00	11.3 (65)	6.00	10.3	7.33**	PACK FAILED: CYCLE 4045	
Gulton 20 A.H.	15	0	3 Hrs	16.7		18.8	25.2	20.3		
	25	0		21.7		20.7	21.8	19.3		
	25	25		20.3		6.17	7.17	PACK FAILED: CYCLE 1754		
	40	25		19.8	PACK FAILED:	CYCLE 358				
	15	50/40		9.50	12.7 (71)	7.33	5.33	4.83		
	25	50/40		9.17	10.3 (47)	6.67	6.67	7.67		
Yardney 12 A.H.	50	0	24 Hrs	13.8		8.60	PACK FAILED:	CYCLE 166		
	50	40		13.5		12.0	PACK FAILED:	CYCLE 210		
Gulton 6 A.H.	50	25	24 Hrs	6.60		3.55	4.40			
G.E. 12 A.H.	50	40***	24 Hrs	13.0		7.60	(40°C) 6.50			
Gulton 50 A.H.	25	0	90 Min	54.6		59.6	45.4			

- * (1) Initial Preconditioning.
- (2) Preconditioning at Change to 40° C. Number of cycles completed at 50° C. is in parentheses.
- (3) Capacity check after First 88 days of cycling.
- (4) Capacity check after Second 88 days.
- (5) Capacity check after Third 88 days.
- (6) Capacity check after Fourth 88 days.
- (7) Capacity check after Fifth 88 days.

** Two cells only; pack failed during capacity check.

*** Changed from 25° to 40° C ambient after 173 cycles.

AMPERE-HOUR CAPACITIES ON
PRECONDITIONING CYCLES AND CAPACITY CHECKS

TYPE	DEPTH OF DISCHARGE	TEMP. °C.	ORBIT PERIOD	DISCHARGE AMPERE-HOURS*					
				(1)	(2)	(3)	(4)	(5)	(6)
Gulton Comm. 4 A.H.	15	0	90 Min	5.04	3.57				
	25	0		4.87	4.00				
	25	25		4.63	2.47				
	40	25		5.00	2.00				
	15	40		4.20	1.77				
	25	40		3.37	1.17				
Gulton 12 A.H.	15	0	90 Min						
	25	0		14.2					
	25	25		14.1					
	40	25		13.3					
	15	40		6.80					
	25	40		11.4					

- * (1) Initial Preconditioning.
- (2) Capacity check after First 88 days of cycling.
- (3) Capacity check after Second 88 days.
- (4) Capacity check after Third 88 days.
- (5) Capacity check after Fourth 88 days.
- (6) Capacity check after Fifth 88 days.

MFR.	CAPACITY	PACK NO.	TEMP °C.	ORBIT PERIOD (HRS)	DEPTH OF DISCHARGE	CHARGE VOLTAGE	CYCLES COVERED		CELLS REMAINING IN PACK			
							INITIAL	FINAL	DIFFERENCE	INITIAL FIN.	FINAL FIN.	
G.E. 3 (pages) (40-48)	63	0	0.5	1.0	15	1.55	5953	6472	520	10	1:	
	64	0	"	"	25	"	"	5883	6401	518	10	1:
	15	25	"	"	25	1.25	1.49	5947	6467	520	10	1:
	16	25	"	"	40	"	"	5571	6094	503	7	5
	39	40	"	"	15	160	1.45	5571	6094	503	7	5
	40	40	"	"	25	"	1.41	FAILED				
	67	0	"	2.5	15	115	1.55	2837	3020	233	10	1:
	68	0	"	"	25	"	"	2842	3075	233	10	1:
	19	25	"	"	25	125	1.49	2812	3045	233	10	1:
	20	25	"	"	40	"	"	2791	2852	61	10	1:
Gould 3.5 (pages) (49-54)	43	40	"	"	15	160	1.45	FAILED				
	44	40	"	"	25	"	"	2631	2839	208	9	5
	51	0	"	1.0	15	115	1.55	5970	6490	520	10	1:
	52	0	"	"	25	"	"	5963	6481	518	10	1:
	3	25	"	"	25	125	1.49	FAILED				
	4	25	"	"	40	"	"	FAILED				
	27	40	"	"	15	160	1.45	FAILED				
	28	40	"	"	25	"	"	FAILED				
	55	0	"	2.5	15	115	1.55	2837	3070	233	10	1:
	56	0	"	"	25	"	"	2826	3059	233	10	1:
	7	25	"	"	25	125	1.49	2848	3006	158	10	9
	8	25	"	"	40	"	"	FAILED				
	31	40	"	"	15	160	1.45	2480	2517	37	5	1:
	32	40	"	"	25	"	"	FAILED				

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MFR.	CAPACITY A.H.	PACK NO.	TEMP. °C.	ORBIT DISCHARGE PERIOD (HRS.)	CHARGE DEPTH OF DISCHARGE	PERCENT OF RECHARGE	CHARGE VOLTAGE LIMIT	CYCLES COVERED INITIAL FINAL	DIFFERENCE IN CYCLES	CELLS REMAIN- ING IN PACK	
Sonotone (55-65)	49	0	0.5	1.0	15	115	1.55	5681	6189	508	9
	50	0	"	"	25	"	"	5641	6148	507	10
	1	25	"	"	25	125	1.49	5525	6032	507	8
	2	25	"	"	40	"	"	5256	5423	67	7
	25	40	"	"	15	160	1.45	5529	5975	446	10
	26	40	"	"	25	"	"	FAILED			
	53	0	"	2.5	15	115	1.55	2710	2918	208	10
	54	0	"	"	25	"	"	2715	2948	233	10
	5	25	"	"	85	125	1.49	2769	2915	208	10
	6	25	"	"	40	"	"	2692	2852	160	7
Gulton (66-72) <small>(Progress)</small>	29	40	"	"	15	160	1.45	2628	2861	233	9
	30	40	"	"	25	"	"	2598	2831	233	9
	61	0	"	1.0	15	115	1.55	5163	5619	456	6
	62	0	"	"	25	"	"	5321	5776	455	7
	13	25	"	"	25	125	1.49	FAILED			
	14	25	"	"	40	"	"	FAILED			
	37	40	"	"	15	160	1.45	4719	4906	187	6
	38	40	"	"	25	"	"	FAILED			
	65	0	"	2.5	15	115	1.55	2842	3050	208	10
	66	0	"	"	25	"	"	2537	2770	233	5
	17	25	"	"	25	125	1.49	2655	2885	230	5
	18	25	"	"	40	"	"	FAILED			
	41	40	"	"	15	160	1.45	FAILED			
	42	40	"	"	25	"	"	2394	2627	233	6

MFR.	CAPACITY A. H.	PACK NO.	TEMP. °C.	ORBIT DISCHARGE PERIOD (HRS) CHARGE	DEPTH OF DISCHARGE	PERCENT OF RECHARGE	CHARGE VOLTAGE LIMIT	CYCLES COVERED INITIAL FINAL	DIFFERENCE IN CYCLES INITIAL FINAL
G. E. (Pages 73-83)	110	0	0.5	1.0	.15	115	1.55	5361	5819
	124	0	"	"	.25	"	"	5176	5634
	82	25	"	"	.25	125	1.49	5557	6027
	96	25	"	"	.40	"	"	11	FAILED
	85	40	"	"	.15	160	1.45	5206	5726
	99	40	"	"	.25	"	"	4750	4853
	111	0	"	0.5	.15	115	1.55	3706	2914
	125	0	"	"	.25	"	"	2705	2913
	83	25	"	"	.25	125	1.49	2747	2955
	97	25	"	"	.40	"	"	2737	2945
	86	40	"	"	.15	160	1.45	2638	2871
	100	40	"	"	.25	"	"	2505	2738
Gould (Pages 90-96)	84	0	"	1.0	.15	115	1.55	5296	5803
	98	0	"	"	.25	"	"	5103	5610
	104	25	"	"	.25	125	1.49	1.49	FAILED
	118	25	"	"	.40	"	"	11	FAILED
	112	40	"	"	.15	160	1.45	4974	5005
	126	40	"	"	.25	"	1.41	1.41	FAILED
	91	0	"	.25	.15	115	1.55	2650	2883
	105	25	"	"	.25	"	"	2521	2754
	119	25	"	"	.40	"	"	2557	2736
	108	40	"	"	.15	160	1.45	2481	2714
	122	40	"	"	.25	"	1.41	1.41	FAILED

MFR.	CAPACITY A.H.	PACK NO.	TEMP °C.	ORBIT DISCHARGE	PERIOD (HRS.) CHARGE	PERCENT DEPTH OF DISCHARGE	PERCENT OF RECHARGE	CHARGE VOLTAGE LIMIT	CYCLES COVERED		CELLS RE- PACKED IN PACK INITIAL	CELLS RE- PACKED IN PACK FINAL	DIFFERENCE INITIAL FINAL
									INITIAL	FINAL			
Gulton 20 (pages 84-89)	101	0	0.5	1.0	15	11.5	1.55	1.55	FAILED				
	115	0	"	"	25	"	"	"	FAILED				
	93	25	"	"	25	12.5	1.49	5114	5664	470	4		
	87	25	"	"	40	"	"	"	FAILED				
	76	40	"	"	15	160	1.45	5006	5513	507	5		
	90	40	"	"	25	"	"	"	FAILED				
	101	0	"	2.5	15	11.5	1.55	2452	2635	283	4		
	116	0	"	"	25	"	"	"	2309	2542	255	5	
	74	25	"	"	25	12.5	1.49	1.49	FAILED				
	88	25	"	"	40	"	"	"	FAILED				
XEROX	77	40	"	"	25	160	1.45	2510	2710	260	5		
	91	40	"	"	25	"	"	"	2422	2655	233	5	

MFR.	CAPACITY A. H.	PACK NO.	TEMP. °C.	ORBIT DISCHARGE	PERIOD (HRS) CHARGE	PERCENT DEPTH OF DISCHARGE	PERCENT OF RECHARGE	CHARGE VOLTAGE LIMIT	CYCLES COVERED		CELLS REMAINING IN PACK
									INITIAL	FINAL	
YARONEY	12	57	0	1.0	23.0	50	*	1.50	FAILED		
		33	40	"	"	"	*	1.50	FAILED		
GULTON (page 97-)	6	79	25	1.0	23.0	50	200	1.49	267	292	25
G.E. (page 78-)	12	93	25*	1.0	23.0	50	200	1.49*	267	270	23
GULTON (page 99-)	50	95	0	0.5	1.0	25	115	1.55	3017	3216	199
		123	40	"	"	15	160	1.45	FAILED		
DELCO (page 89-)	2.5	75	25	1.0	23.0	40	*	1.97	FAILED		
		89	25	"	"	"	*	"	FAILED		
DELCO (page 100)	40	175	25	1.0	23.0	25	*	1.97	65	90	25

* Does Not Apply
** Changed to 40°C, 1.45 v/cell limit after cycle 173.

MFR.	CAPACITY C.A.H.	PACK NO.	TEMP °C.	ORBIT DISCHARGE	PERCENT DEPTH OF DISCHARGE	CHARGE VOLTAGE LIMIT	CYCLES COVERED		CELLS REMAINING IN PACK INITIAL FINES
							INITIAL	FINAL	
GULTON (P ^o 325 (101-106)	4	315	0	0.5	1.0	1.55	2479	2986	507
		326	0	"	"	"	2483	2990	507
	204	25	"	"	25	1.49	2384	2862	518
	214	25	"	"	"	"	2264	2524	265
	228	40	"	"	40	"	2355	2753	518
	240	40	"	"	160	1.45	2337	2855	518
					25	"	2337	2855	518
GULTON (P ^o 325 (107-111)	12								
	301	0	"	"	25	1.55	152	628	1193
	227	25	"	"	25	1.49	1	418	449
	296	25	"	"	40	1.49	391	887	508
	78	40	"	"	15	1.45	118	632	520
	290	40	"	"	25	"	385	892	507

PACK NO. 63
G.E. 3 A.H.

DEPTH OF DISCHARGE 15 TEST TEMPERATURE 0 C
PERCENT OF RECHARGE 115 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	CELL VOLTAGES					TEST TEMPERATURE 0 C ORBIT PERIOD 90 MIN.		
			1	2	3	4	5	6	7	8
5984.	12.37	.90	1.25	1.25	1.23	1.24	1.24	1.25	1.24	1.23
6014.	12.37	.90	1.25	1.25	1.23	1.24	1.24	1.25	1.23	1.23
6050.	12.36	.90	1.24	1.24	1.23	1.24	1.24	1.25	1.23	1.23
6072.	12.37	.90	1.24	1.25	1.23	1.24	1.24	1.25	1.24	1.23
6118.	12.53	.90	1.26	1.26	1.25	1.26	1.25	1.27	1.25	1.24
6147.	12.44	.90	1.25	1.26	1.24	1.26	1.25	1.27	1.25	1.24
6182.	12.28	.91	1.24	1.24	1.23	1.24	1.23	1.23	1.25	1.22
6230.	12.38	.90	1.25	1.24	1.23	1.24	1.23	1.24	1.25	1.24
6267.	12.39	.90	1.25	1.25	1.23	1.24	1.23	1.24	1.25	1.23
6306.	12.37	.91	1.25	1.25	1.23	1.24	1.23	1.24	1.26	1.24
6341.	12.39	.90	1.25	1.25	1.23	1.25	1.24	1.24	1.26	1.24
6367.	12.37	.90	1.25	1.25	1.23	1.25	1.24	1.24	1.26	1.24
6400.	12.37	.91	1.25	1.25	1.23	1.25	1.24	1.24	1.26	1.24
6431.	12.34	.91	1.24	1.24	1.23	1.25	1.23	1.24	1.25	1.23
6473.	12.37	.91	1.24	1.25	1.23	1.24	1.23	1.24	1.25	1.23
5984.	15.38	.29	1.56	1.53	1.53	1.56	1.53	1.57	1.59	1.50
6014.	15.36	.28	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.49
6050.	15.41	.40	1.66	1.51	1.58	1.59	1.57	1.60	1.60	1.46
6072.	16.06	.31	1.59	1.55	1.53	1.54	1.52	1.55	1.57	1.58
6118.	15.63	.27	1.55	1.47	1.46	1.52	1.52	1.54	1.56	1.53
6147.	15.23	.28	1.53	1.61	1.47	1.47	1.58	1.55	1.55	1.50
6182.	15.12	.27	1.61	1.61	1.47	1.47	1.59	1.55	1.54	1.50
6230.	15.60	.26	1.61	1.62	1.47	1.47	1.59	1.56	1.56	1.52
6267.	15.60	.26	1.62	1.62	1.48	1.48	1.59	1.56	1.56	1.52
6306.	15.62	.26	1.62	1.62	1.48	1.48	1.59	1.56	1.56	1.52
6341.	15.59	.28	1.62	1.62	1.48	1.48	1.59	1.56	1.56	1.52
6367.	15.61	.28	1.62	1.62	1.48	1.48	1.59	1.56	1.56	1.52
6400.	15.62	.26	1.62	1.62	1.48	1.48	1.59	1.56	1.56	1.52
6431.	15.54	.25	1.61	1.61	1.47	1.47	1.59	1.55	1.55	1.51
6473.	15.52	.25	1.61	1.61	1.47	1.47	1.59	1.55	1.55	1.51

40.

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	CELL VOLTAGES					TEST TEMPERATURE 0 C ORBIT PERIOD 90 MIN.		
			1	2	3	4	5	6	7	8
5984.	15.38	.29	1.56	1.53	1.53	1.56	1.53	1.57	1.59	1.50
6014.	15.36	.28	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.49
6050.	15.41	.40	1.66	1.51	1.58	1.59	1.57	1.60	1.60	1.46
6072.	16.06	.31	1.59	1.55	1.53	1.54	1.52	1.55	1.57	1.58
6118.	15.63	.27	1.55	1.47	1.46	1.52	1.52	1.54	1.56	1.53
6147.	15.23	.28	1.53	1.61	1.47	1.47	1.58	1.55	1.55	1.50
6182.	15.12	.27	1.61	1.61	1.47	1.47	1.59	1.56	1.61	1.56
6230.	15.60	.26	1.61	1.62	1.47	1.47	1.59	1.56	1.61	1.52
6267.	15.60	.26	1.62	1.62	1.48	1.48	1.59	1.56	1.62	1.52
6306.	15.62	.26	1.62	1.62	1.48	1.48	1.59	1.56	1.62	1.52
6341.	15.59	.28	1.62	1.62	1.48	1.48	1.59	1.56	1.61	1.52
6367.	15.61	.28	1.62	1.62	1.48	1.48	1.59	1.56	1.62	1.52
6400.	15.62	.26	1.62	1.62	1.48	1.48	1.59	1.56	1.62	1.52
6431.	15.54	.25	1.61	1.61	1.47	1.47	1.59	1.55	1.61	1.51
6473.	15.52	.25	1.61	1.61	1.47	1.47	1.59	1.55	1.61	1.51

XERO

XERO

XERO

PACK NO. 64
G.E. 3 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115 TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT	1.50	CELL Voltages						END OF DISCHARGE	
				1	2	3	4	5	6		
5952.	12.15	1.50	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.20
5978.	12.14	1.50	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.20
6045.	12.14	1.50	1.23	1.23	1.23	1.23	1.23	1.23	1.22	1.21	1.20
6082.	12.08	1.50	1.22	1.23	1.23	1.23	1.23	1.23	1.22	1.22	1.20
6106.	12.07	1.51	1.21	1.22	1.21	1.21	1.21	1.21	1.20	1.21	1.20
6160.	12.06	1.51	1.21	1.21	1.21	1.21	1.21	1.21	1.20	1.21	1.19
6201.	12.10	1.51	1.21	1.22	1.21	1.21	1.22	1.22	1.21	1.21	1.19
6241.	12.14	1.50	1.23	1.23	1.23	1.22	1.23	1.22	1.22	1.22	1.20
6269.	12.09	1.50	1.22	1.22	1.22	1.22	1.22	1.21	1.22	1.22	1.20
6297.	12.10	1.51	1.22	1.22	1.22	1.22	1.22	1.22	1.21	1.22	1.20
6330.	11.99	1.51	1.21	1.21	1.21	1.21	1.21	1.21	1.20	1.21	1.19
6361.	11.97	1.51	1.20	1.21	1.21	1.20	1.21	1.21	1.20	1.21	1.19
6401.	11.99	1.51	1.21	1.21	1.21	1.20	1.21	1.21	1.20	1.21	1.20
86	15.69	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.58
5914.	15.69	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
5952.	15.70	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
5978.	15.82	1.41	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.57	1.59
6045.	15.78	1.41	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.57	1.61
6082.	15.33	1.41	1.52	1.53	1.51	1.53	1.53	1.53	1.54	1.45	1.54
6106.	15.42	1.41	1.54	1.56	1.54	1.56	1.56	1.56	1.57	1.48	1.60
6160.	15.66	1.42	1.56	1.56	1.56	1.55	1.55	1.55	1.60	1.49	1.60
6201.	15.78	1.39	1.58	1.58	1.58	1.56	1.56	1.60	1.62	1.49	1.61
6241.	15.75	1.38	1.59	1.59	1.59	1.57	1.57	1.61	1.62	1.49	1.61
6269.	15.75	1.49	1.59	1.59	1.59	1.58	1.58	1.61	1.63	1.49	1.62
6297.	15.54	1.37	1.56	1.56	1.56	1.54	1.54	1.58	1.60	1.49	1.59
6330.	15.83	1.52	1.61	1.61	1.61	1.58	1.58	1.61	1.61	1.49	1.63
6361.	15.13	1.43	1.51	1.51	1.51	1.50	1.50	1.55	1.55	1.46	1.50
6401.	15.02	1.42	1.50	1.50	1.50	1.49	1.49	1.51	1.53	1.46	1.53

41.

PACK NO. 15
G.E. 3 A.H.

DEPTH OF DISCHARGE 25 C
PERCENT OF RECHARGE 125 TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	CELL Voltages					TEST TEMPERATURE 25 C		
			1	2	3	4	5	6	7	8
5978.	11.74	1.50	1.20	1.18	1.17	1.16	1.20	1.16	1.17	1.18
6008.	11.82	1.50	1.21	1.18	1.18	1.17	1.21	1.17	1.17	1.19
6044.	11.76	1.50	1.20	1.17	1.17	1.16	1.20	1.17	1.17	1.18
6066.	11.79	1.50	1.20	1.18	1.17	1.17	1.20	1.17	1.17	1.18
6141.	11.69	1.52	1.20	1.17	1.16	1.16	1.20	1.16	1.16	1.18
6176.	11.71	1.52	1.19	1.16	1.15	1.15	1.19	1.16	1.16	1.17
6224.	11.69	1.51	1.19	1.17	1.15	1.15	1.19	1.16	1.15	1.18
6261.	11.74	1.52	1.20	1.19	1.17	1.16	1.19	1.16	1.16	1.17
6300.	11.66	1.52	1.19	1.19	1.16	1.16	1.15	1.19	1.16	1.18
6335.	11.74	1.51	1.20	1.20	1.17	1.17	1.16	1.20	1.17	1.17
6361.	11.68	1.52	1.19	1.19	1.17	1.16	1.16	1.20	1.16	1.19
6394.	11.64	1.52	1.19	1.19	1.16	1.15	1.15	1.19	1.16	1.18
6425.	11.66	1.52	1.19	1.19	1.16	1.16	1.15	1.19	1.16	1.17
6467.	11.72	1.52	1.20	1.17	1.16	1.16	1.19	1.16	1.17	1.18
94	14.72	.86	1.50	1.51	1.45	1.46	1.45	1.50	1.45	1.47
5978.	14.74	.85	1.51	1.52	1.46	1.47	1.46	1.51	1.45	1.46
6008.	14.74	.85	1.50	1.51	1.45	1.46	1.45	1.50	1.45	1.46
6044.	14.73	.83	1.51	1.52	1.46	1.46	1.45	1.51	1.45	1.47
6066.	14.73	.83	1.50	1.51	1.45	1.46	1.45	1.50	1.45	1.47
6141.	14.74	.83	1.50	1.52	1.46	1.46	1.45	1.51	1.44	1.46
6176.	14.75	.89	1.50	1.51	1.45	1.46	1.45	1.50	1.45	1.46
6224.	14.76	.86	1.50	1.51	1.45	1.46	1.45	1.50	1.44	1.46
6261.	14.76	.88	1.50	1.51	1.45	1.46	1.45	1.50	1.45	1.46
6300.	14.72	.91	1.50	1.51	1.45	1.46	1.45	1.50	1.44	1.46
6335.	14.76	.86	1.50	1.52	1.46	1.46	1.45	1.51	1.45	1.47
6361.	14.77	.83	1.50	1.51	1.46	1.46	1.45	1.51	1.45	1.47
6394.	14.71	.91	1.48	1.50	1.45	1.46	1.45	1.49	1.45	1.47
6425.	14.75	.89	1.50	1.51	1.45	1.46	1.45	1.50	1.45	1.46
6467.	14.73	.90	1.49	1.51	1.45	1.46	1.45	1.50	1.45	1.47

443.

END OF
DISCHARGE

END OF

CHARGE

PACK NO. 39
G.E. 3 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160
TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	CURRENT .90	CELL Voltages					END OF DISCHARGE
				1	2	3	4	5	
5619.	8.25	.89	1.15	.00	1.19	1.21	1.19	.00	.00 1.18 1.17 1.20
5649.	8.32	.90	1.16	.00	1.20	1.21	1.20	.00	.00 1.20 1.20 1.20
5685.	8.26	.90	1.15	.00	1.19	1.20	1.19	.00	.00 1.18 1.19 1.19
5707.	8.26	.90	1.15	.00	1.20	1.21	1.19	.00	.00 1.17 1.17 1.19
5753.	8.29	.90	1.16	.00	1.19	1.20	1.20	.00	.00 1.18 1.18 1.19
5782.	8.26	.89	1.15	.00	1.20	1.20	1.19	.00	.00 1.18 1.19 1.20
5817.	8.24	.90	1.16	.00	1.19	1.19	1.19	.00	.00 1.16 1.17 1.19
5865.	8.27	.90	1.16	.00	1.20	1.19	1.19	.00	.00 1.17 1.19 1.19
5902.	8.27	.90	1.16	.00	1.19	1.19	1.19	.00	.00 1.18 1.18 1.19
5941.	8.24	.89	1.16	.00	1.19	1.20	1.19	.00	.00 1.17 1.18 1.19
5976.	8.24	.90	1.16	.00	1.19	1.19	1.19	.00	.00 1.18 1.18 1.20
6002.	8.25	.90	1.16	.00	1.20	1.20	1.20	.00	.00 1.18 1.19 1.19
6052.	8.29	.90	1.15	.00	1.20	1.20	1.20	.00	.00 1.17 1.19 1.21
6094.	8.25	.90	1.17	.00	1.18	1.20	1.20	.00	.00 1.18 1.19 1.19
5619.	9.93	.72	1.42	.00	1.43	1.43	1.42	.00	.00 1.42 1.41 1.43
5649.	9.97	.72	1.43	.00	1.43	1.42	1.43	.00	.00 1.42 1.42 1.43
5685.	9.96	.72	1.42	.00	1.43	1.43	1.42	.00	.00 1.42 1.42 1.43
5707.	9.99	.73	1.43	.00	1.43	1.43	1.43	.00	.00 1.42 1.42 1.44
5753.	9.98	.73	1.43	.00	1.43	1.43	1.43	.00	.00 1.42 1.42 1.43
5782.	9.98	.73	1.42	.00	1.42	1.42	1.42	.00	.00 1.42 1.42 1.44
5817.	9.96	.73	1.42	.00	1.42	1.42	1.42	.00	.00 1.41 1.42 1.43
5865.	9.97	.71	1.42	.00	1.42	1.42	1.43	.00	.00 1.42 1.42 1.43
5902.	9.98	.66	1.42	.00	1.43	1.42	1.42	.00	.00 1.42 1.42 1.43
5941.	9.98	.64	1.43	.00	1.42	1.43	1.43	.00	.00 1.42 1.42 1.43
5976.	10.00	.71	1.43	.00	1.43	1.43	1.44	.00	.00 1.43 1.43 1.44
6002.	10.00	.72	1.43	.00	1.43	1.43	1.44	.00	.00 1.43 1.43 1.44
6052.	10.02	.72	1.43	.00	1.43	1.43	1.44	.00	.00 1.42 1.42 1.45
6094.	9.95	.73	1.43	.00	1.42	1.43	1.42	.00	.00 1.42 1.42 1.43

43.

XERO

XERO

PACK NO. 67
G.E. 3 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	CURRENT 0.90	1	2	3	4	5	6	7	8	9	10	END OF DISCHARGE
2874.	12.44	.91	1.25	1.25	1.24	1.25	1.25	1.25	1.25	1.25	1.26	1.24	1.24	1.24
2898.	12.44	.91	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.26	1.24	1.24	1.24
2934.	12.41	.91	1.25	1.25	1.24	1.25	1.25	1.25	1.25	1.25	1.26	1.24	1.24	1.24
2972.	12.37	.90	1.24	1.24	1.23	1.24	1.24	1.24	1.24	1.24	1.25	1.23	1.23	1.23
3013.	12.40	.90	1.26	1.25	1.24	1.25	1.25	1.25	1.25	1.25	1.26	1.24	1.24	1.24
3045.	12.46	.90	1.25	1.25	1.23	1.25	1.25	1.25	1.26	1.26	1.27	1.25	1.25	1.25
3070.	12.46	.90	1.26	1.25	1.24	1.26	1.26	1.25	1.25	1.26	1.26	1.25	1.25	1.24
														END OF CHARGE
2874.	15.55	.10	1.61	1.61	1.47	1.47	1.61	1.61	1.56	1.55	1.53	1.60	1.54	1.54
2898.	15.61	.10	1.61	1.47	1.50	1.61	1.62	1.57	1.57	1.53	1.61	1.55	1.55	1.55
2934.	15.47	.09	1.60	1.46	1.46	1.48	1.61	1.61	1.56	1.55	1.51	1.61	1.53	1.53
2972.	15.55	.10	1.60	1.45	1.45	1.47	1.60	1.60	1.58	1.57	1.51	1.60	1.56	1.56
3013.	15.42	.08	1.59	1.45	1.45	1.47	1.58	1.60	1.56	1.55	1.51	1.56	1.57	1.57
3045.	15.30	.10	1.58	1.44	1.44	1.46	1.57	1.59	1.55	1.54	1.50	1.58	1.54	1.54
3070.	15.11	.11	1.50	1.48	1.52	1.53	1.50	1.49	1.47	1.56	1.60	1.49	1.49	1.49

1/46.

PACK NO. 68
G.E. 3 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115
TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	CELL Voltages					TEST TEMPERATURE 0 C	ORBIT PERIOD 3 HOURS
			1	2	3	4	5		
2879.	12.22	1.49	1.21	1.22	1.23	1.23	1.23	1.23	1.22
2903.	12.19	1.51	1.21	1.22	1.23	1.23	1.23	1.23	1.22
2943.	12.11	1.51	1.21	1.21	1.22	1.21	1.21	1.21	1.20
2980.	12.12	1.48	1.20	1.21	1.22	1.22	1.22	1.22	1.21
3018.	12.12	1.48	1.21	1.21	1.22	1.22	1.22	1.22	1.21
3050.	12.10	1.49	1.21	1.21	1.22	1.22	1.22	1.22	1.21
3075.	12.17	1.50	1.21	1.22	1.23	1.23	1.22	1.23	1.22
		34							
2879.	15.63	.22	1.58	1.60	1.58	1.59	1.57	1.53	1.51
2903.	15.58	.23	1.61	1.60	1.57	1.59	1.57	1.51	1.49
2943.	15.69	.17	1.62	1.64	1.59	1.62	1.61	1.50	1.48
2980.	15.75	.15	1.63	1.64	1.59	1.62	1.62	1.48	1.47
3018.	15.81	.15	1.64	1.65	1.61	1.63	1.63	1.49	1.46
3050.	15.77	.16	1.64	1.65	1.61	1.63	1.63	1.49	1.47
3075.	15.64	.17	1.64	1.64	1.54	1.60	1.60	1.57	1.51

45.

PACK NO. 19
G.E. 3 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125
TEST TEMPERATURE 25 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES					END OF DISCHARGE
			1	2	3	4	5	
1873.	12.18	1.51	1.22	1.23	1.23	1.23	1.23	1.22
2849.	12.20	1.52	1.22	1.23	1.23	1.22	1.22	1.22
2909.	12.16	1.52	1.22	1.22	1.23	1.22	1.22	1.22
2947.	12.17	1.51	1.22	1.22	1.22	1.22	1.22	1.21
2988.	12.15	1.52	1.22	1.22	1.23	1.22	1.22	1.21
3020.	12.19	1.50	1.22	1.23	1.23	1.23	1.23	1.21
3045.	12.16	1.51	1.22	1.22	1.22	1.22	1.22	1.22
1873.	14.96	.38	1.50	1.48	1.43	1.49	1.48	1.54
2849.	14.93	.38	1.49	1.47	1.47	1.48	1.47	1.47
2909.	14.84	.38	1.48	1.47	1.47	1.48	1.53	1.54
2947.	15.95	.38	1.50	1.48	1.48	1.49	1.47	1.52
2988.	14.76	.38	1.47	1.47	1.46	1.47	1.55	1.57
3020.	14.87	.38	1.49	1.48	1.47	1.48	1.53	1.53
3045.	14.89	.38	1.48	1.47	1.47	1.47	1.47	1.54

46.

EXPO

EXPO

XEROX
COPY
1

PACK NO. 20
G.E. 3 A.H.

DEPTH OF DISCHARGE 40
PERCENT OF RECHARGE 125 TEST TEMPERATURE 25 C
NO. VOLTAGE 2.40 ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT	CELL VOLTAGES					END OF DISCHARGE
			1	2	3	4	5	
2828.	11.19	2.43	1.15	1.13	1.14	1.12	1.07	1.12 1.13 1.15 1.16 1.12
2852.	11.36	2.40	1.16	1.14	1.15	1.14	1.14	1.13 1.15 1.14 1.16 1.14
2828.	14.84	.60	1.50	1.48	1.49	1.47	1.45	1.49 1.48 1.47 1.49 1.51 1.50
2852.	14.84	.56	1.50	1.48	1.48	1.47	1.46	1.48 1.47 1.49 1.51 1.49

PACK NO. 44
G.E. 3 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 160
TEST TEMPERATURE 40 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE 1.50	CURRENT 1	2	3	CELL VOLTAGES			6	7	8	9	10
					4	5	END OF DISCHARGE					
2668.	10.12	1.50	1.12	1.15	1.13	1.14	1.13	.00	1.14	1.13	1.13	1.10
2692.	10.18	1.50	1.12	1.16	1.14	1.15	1.13	.00	1.15	1.13	1.14	1.12
2707.	10.18	1.51	1.12	1.15	1.13	1.13	1.12	.00	1.13	1.12	1.11	1.12
2744.	10.14	1.51	1.11	1.14	1.13	1.14	1.12	.00	1.14	1.13	1.12	1.11
2782.	10.10	1.51	1.12	1.15	1.13	1.14	1.12	.00	1.14	1.13	1.12	1.10
2814.	10.11	1.51	1.12	1.15	1.13	1.14	1.13	.00	1.15	1.13	1.13	1.10
2839.	10.16	1.49	1.12	1.15	1.13	1.15	1.13	.00	1.15	1.14	1.13	1.12
2668.	12.95	1.44	1.43	1.47	1.44	1.43	1.43	.00	1.44	1.46	1.42	1.44
2692.	12.95	1.45	1.43	1.47	1.44	1.43	1.43	.00	1.44	1.46	1.42	1.44
2707.	12.94	1.45	1.43	1.47	1.44	1.43	1.43	.00	1.43	1.46	1.42	1.44
2744.	12.95	1.46	1.42	1.46	1.44	1.43	1.42	.00	1.44	1.46	1.42	1.44
2782.	13.00	1.46	1.43	1.47	1.44	1.44	1.43	.00	1.45	1.48	1.43	1.45
2814.	12.99	1.45	1.43	1.48	1.45	1.44	1.43	.00	1.45	1.48	1.43	1.45
2839.	12.96	1.46	1.43	1.47	1.44	1.44	1.43	.00	1.44	1.47	1.42	1.44

XEROX

XEROX

PACK NO. 51
GOULD 3.5 A.H.

DEPTH OF DISCHARGE 15 TEST TEMPERATURE 0 C
PERCENT OF RECHARGE 115 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	CURRENT 1.05	CELL Voltages					END OF DISCHARGE
				1	2	3	4	5	
6001.	12.46	1.06	1.26	1.25	1.24	1.26	1.25	1.26	1.23
6031.	12.49	1.06	1.26	1.25	1.24	1.27	1.26	1.26	1.25
6067.	12.47	1.06	1.25	1.24	1.24	1.26	1.25	1.26	1.23
6089.	12.48	1.06	1.26	1.25	1.24	1.26	1.25	1.26	1.24
6135.	12.45	1.06	1.25	1.24	1.24	1.26	1.25	1.26	1.23
6164.	12.46	1.06	1.26	1.25	1.24	1.26	1.25	1.26	1.25
6199.	12.45	1.06	1.24	1.23	1.23	1.25	1.26	1.26	1.24
6247.	12.41	1.07	1.25	1.24	1.23	1.25	1.25	1.25	1.24
6284.	12.44	1.06	1.25	1.24	1.24	1.25	1.25	1.25	1.24
6323.	12.44	1.05	1.26	1.24	1.23	1.27	1.25	1.25	1.23
6384.	12.52	1.05	1.26	1.25	1.24	1.28	1.26	1.26	1.28
6417.	12.46	1.06	1.25	1.24	1.24	1.25	1.25	1.25	1.25
6448.	12.46	1.06	1.25	1.24	1.23	1.25	1.25	1.25	1.24
6490.	12.46	1.06	1.25	1.25	1.24	1.25	1.25	1.25	1.24
6001.	15.49	1.53	1.56	1.59	1.59	1.59	1.59	1.59	1.44
6031.	15.50	1.53	1.57	1.58	1.58	1.47	1.47	1.48	1.57
6067.	15.50	1.53	1.56	1.56	1.58	1.59	1.55	1.56	1.56
6089.	15.49	1.50	1.56	1.56	1.57	1.58	1.46	1.65	1.56
6135.	15.44	1.52	1.55	1.55	1.57	1.58	1.46	1.63	1.55
6164.	15.50	1.54	1.56	1.56	1.57	1.59	1.47	1.65	1.55
6199.	15.52	1.53	1.56	1.56	1.58	1.59	1.47	1.66	1.55
6247.	15.49	1.53	1.56	1.56	1.57	1.58	1.46	1.65	1.57
6284.	15.48	1.52	1.56	1.56	1.57	1.58	1.46	1.64	1.56
6323.	15.49	1.52	1.57	1.57	1.58	1.58	1.48	1.64	1.57
6384.	15.55	1.52	1.56	1.56	1.57	1.58	1.59	1.55	1.58
6417.	15.55	1.52	1.56	1.56	1.57	1.58	1.59	1.55	1.58
6448.	15.54	1.53	1.56	1.56	1.57	1.58	1.59	1.46	1.49
6490.	15.51	1.52	1.56	1.56	1.57	1.58	1.58	1.65	1.55

169

XERO

XERO

XERO

PACK NO. 52
GOULD 3.5 A.H.

DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C
PERCENT OF RECHARGE 115 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	CURRENT 1.75	CELL Voltages					END OF DISCHARGE
				1	2	3	4	5	
5994.	12.11	1.76	1.22	1.21	1.21	1.22	1.23	1.20	1.21 1.18
6032.	12.08	1.77	1.22	1.21	1.21	1.22	1.22	1.19	1.21 1.16
6058.	12.06	1.77	1.21	1.21	1.22	1.21	1.22	1.19	1.20 1.15
6125.	12.01	1.76	1.21	1.21	1.21	1.22	1.22	1.19	1.20 1.12
6162.	12.01	1.76	1.23	1.22	1.16	1.21	1.21	1.18	1.19 1.16
6186.	12.01	1.77	1.21	1.21	1.08	1.21	1.22	1.21	1.20 1.23
6240.	11.98	1.76	1.21	1.20	1.06	1.20	1.22	1.21	1.19 1.20
6281.	12.13	1.76	1.21	1.20	1.22	1.20	1.22	1.21	1.20 1.24
6321.	12.18	1.76	1.22	1.21	1.25	1.21	1.22	1.21	1.21 1.23
6349.	12.09	1.76	1.21	1.21	1.24	1.21	1.22	1.19	1.24 1.20
6377.	12.10	1.77	1.22	1.21	1.23	1.21	1.22	1.20	1.24 1.23
6410.	12.01	1.73	1.20	1.21	1.20	1.20	1.22	1.21	1.19 1.19
6441.	11.97	1.78	1.20	1.20	1.18	1.21	1.21	1.20	1.18 1.22
6481.	11.89	1.76	1.20	1.21	1.16	1.21	1.22	1.21	1.16 1.22
5994.	15.41	0.71	1.59	1.69	1.69	1.69	1.69	1.59	1.56 1.42
6032.	15.38	0.73	1.59	1.69	1.69	1.69	1.69	1.59	1.53 1.41
6058.	15.46	0.71	1.53	1.60	1.57	1.57	1.57	1.54	1.56 1.42
6125.	15.43	0.71	1.56	1.57	1.44	1.57	1.55	1.55	1.55 1.43
6162.	15.42	0.70	1.59	1.59	1.46	1.59	1.56	1.52	1.54 1.43
6186.	15.43	0.70	1.59	1.58	1.47	1.59	1.57	1.54	1.57 1.46
6240.	15.54	0.71	1.58	1.58	1.59	1.59	1.59	1.53	1.56 1.54
6281.	15.61	0.72	1.58	1.58	1.49	1.49	1.57	1.57	1.54 1.55
6321.	15.60	0.71	1.59	1.59	1.50	1.50	1.59	1.57	1.57 1.55
6349.	15.57	0.73	1.59	1.60	1.50	1.50	1.58	1.54	1.58 1.55
6377.	15.44	0.66	1.58	1.59	1.49	1.49	1.59	1.57	1.57 1.54
6410.	15.40	0.70	1.57	1.57	1.58	1.59	1.47	1.57	1.56 1.54
6441.	15.35	0.71	1.55	1.55	1.47	1.47	1.59	1.57	1.52 1.45
6481.	15.28	0.68	1.52	1.53	1.46	1.46	1.59	1.57	1.51 1.44

PACK NO. 55
GOULD 3.5 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115
TEST TEMPERATURE 0 °C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT	CELL VOLTAGES					END OF DISCHARGE
			1	2	3	4	5	
2874.	12.50	1.05	1.25	1.26	1.25	1.25	1.25	1.25
2898.	12.48	1.06	1.25	1.26	1.25	1.25	1.25	1.25
2934.	12.47	1.06	1.25	1.25	1.25	1.25	1.25	1.25
2972.	12.46	1.05	1.25	1.25	1.24	1.24	1.24	1.24
3013.	12.46	1.05	1.26	1.26	1.25	1.24	1.24	1.25
3045.	12.48	1.06	1.25	1.26	1.25	1.25	1.25	1.25
3070.	12.48	1.05	1.25	1.26	1.25	1.25	1.25	1.25
		.24						
2874.	15.34	.24	1.54	1.55	1.54	1.54	1.53	1.52
2898.	15.35	.24	1.54	1.55	1.55	1.54	1.53	1.52
2934.	15.32	.25	1.54	1.55	1.54	1.55	1.53	1.52
2972.	15.32	.25	1.53	1.53	1.54	1.54	1.53	1.52
3013.	15.32	.25	1.54	1.54	1.54	1.54	1.53	1.52
3045.	15.34	.24	1.54	1.55	1.55	1.55	1.54	1.53
3070.	15.37	.25	1.54	1.54	1.55	1.55	1.54	1.53

PACK NO. 56
GOULD 3.5 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT	CELL VOLTAGES										END OF CHARGE
			1	2	3	4	5	6	7	8	9	10	
2863.	12.11	1.78	1.21	1.22	1.23	1.22	1.22	1.21	1.22	1.22	1.20	1.21	
2887.	12.15	1.75	1.22	1.22	1.23	1.22	1.22	1.22	1.22	1.23	1.21	1.22	
2927.	12.18	1.75	1.21	1.21	1.22	1.22	1.22	1.21	1.22	1.23	1.21	1.22	
2964.	12.13	1.76	1.21	1.21	1.22	1.21	1.21	1.20	1.21	1.23	1.20	1.21	
3002.	12.11	1.77	1.22	1.22	1.22	1.22	1.22	1.21	1.21	1.22	1.21	1.21	
3034.	12.10	1.78	1.21	1.22	1.22	1.22	1.22	1.21	1.22	1.23	1.21	1.21	
3059.	12.12	1.77	1.21	1.22	1.22	1.22	1.22	1.21	1.21	1.22	1.21	1.21	
		49											
2863.	15.19	.28	1.51	1.52	1.53	1.53	1.52	1.52	1.52	1.53	1.51	1.51	
2887.	15.34	.32	1.53	1.53	1.54	1.54	1.54	1.54	1.54	1.55	1.52	1.52	
2927.	15.37	.31	1.54	1.54	1.56	1.56	1.55	1.54	1.54	1.55	1.53	1.52	
2964.	15.37	.30	1.53	1.53	1.54	1.55	1.54	1.53	1.54	1.55	1.53	1.52	
3002.	15.42	.30	1.55	1.54	1.55	1.56	1.54	1.54	1.55	1.55	1.53	1.53	
3034.	15.39	.30	1.54	1.54	1.55	1.56	1.55	1.54	1.55	1.56	1.54	1.53	
3059.	15.52	.27	1.53	1.53	1.60	1.62	1.55	1.53	1.58	1.55	1.53	1.54	

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PACK NO. 7
GOULD 3.5 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125
TEST TEMPERATURE 25 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT	CELL VOLTAGES					END OF DISCHARGE		
			1	2	3	4	5	6	7	8
2886.	11.52	1.76	1.02	.88	1.22	1.21	1.19	1.19	1.21	1.21
2908.	11.45	1.76	1.00	.83	1.22	1.21	1.19	1.19	1.20	1.21
2946.	11.41	1.77	1.02	.83	1.21	1.20	1.18	1.18	1.21	1.21
3006.	10.35	1.74	.90	.10	1.21	1.20	1.18	1.18	1.22	1.20
2886.	14.61	.44	1.43	1.46	1.47	1.46	1.47	1.45	1.49	1.46
2908.	14.61	.43	1.44	1.46	1.47	1.46	1.47	1.45	1.49	1.46
2946.	14.59	.42	1.43	1.45	1.47	1.46	1.46	1.43	1.51	1.46
3006.	14.63	.44	1.46	1.46	1.48	1.47	1.47	1.44	1.50	1.46

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XEROX
PACK NO. 31
GOULD 3.5 A.H.

DEPTH OF DISCHARGE 15
TEST TEMPERATURE 40 C
PERCENT OF RECHARGE 160
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT	CELL VOLTAGES				END OF DISCHARGE
			1	2	3	4	
2517.	3.36	1.03	.16*	.00	.00	1.21	1.20 .06* 1.21 .00 .00 .00
2517.	7.23	.33	.34	1.41	.00	.00	1.44 1.54 1.40 1.47 .00 .00 .00

* PACK FAILURE: CYCLE 2517.

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PACK NO. 49
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 15 TEST TEMPERATURE 0 C
PERCENT OF RECHARGE 115 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	CURRENT 1.50	CELL Voltages										END OF DISCHARGE
				1	2	3	4	5	6	7	8	9	10	
5712.	11.01	1.51	1.22	1.22	1.22	1.22	1.22	1.23	1.24	1.25	1.26	0.0	1.23	
5744.	10.99	1.51	1.22	1.22	1.21	1.22	1.22	1.23	1.24	1.24	1.25	0.0	1.23	
5776.	10.99	1.53	1.22	1.22	1.21	1.21	1.21	1.22	1.24	1.25	1.25	0.0	1.23	
5838.	10.99	1.50	1.23	1.12	1.23	1.23	1.23	1.22	1.24	1.25	1.24	0.0	1.24	
5875.	10.98	1.51	1.22	1.22	1.22	1.22	1.22	1.23	1.24	1.25	1.25	0.0	1.23	
5902.	11.05	1.51	1.23	1.23	1.23	1.22	1.22	1.23	1.24	1.25	1.26	0.0	1.23	
5952.	10.96	1.50	1.21	1.21	1.20	1.21	1.21	1.22	1.23	1.24	1.25	0.0	1.22	
5997.	10.98	1.52	1.22	1.22	1.20	1.21	1.21	1.22	1.23	1.24	1.25	0.0	1.23	
6026.	11.08	1.52	1.23	1.23	1.23	1.24	1.22	1.23	1.24	1.25	1.26	0.0	1.24	
6056.	10.98	1.51	1.22	1.22	1.21	1.21	1.21	1.23	1.23	1.25	1.25	0.0	1.23	
6095.	10.84	1.51	1.21	1.21	1.21	1.18	1.20	1.21	1.22	1.23	1.24	0.0	1.22	
6132.	11.03	1.53	1.22	1.22	1.22	1.23	1.22	1.23	1.24	1.25	1.26	0.0	1.24	
6131.	10.97	1.54	1.21	1.22	1.22	1.21	1.21	1.22	1.22	1.23	1.24	0.0	1.23	
6189.	11.01	1.51	1.22	1.22	1.23	1.22	1.21	1.22	1.23	1.23	1.24	0.0	1.23	
86														
5712.	14.09	1.57	1.56	1.62	1.57	1.56	1.59	1.56	1.54	1.65	1.56	1.57	0.0	1.53
5744.	13.97	1.55	1.54	1.54	1.55	1.54	1.55	1.56	1.54	1.64	1.54	1.55	0.0	1.52
5776.	14.09	1.55	1.54	1.54	1.55	1.54	1.55	1.56	1.54	1.64	1.54	1.56	0.0	1.52
5838.	14.18	1.53	1.56	1.55	1.55	1.54	1.54	1.58	1.57	1.67	1.55	1.56	0.0	1.54
5875.	14.06	1.53	1.56	1.55	1.55	1.54	1.55	1.57	1.57	1.67	1.56	1.57	0.0	1.53
5902.	14.12	1.52	1.55	1.55	1.55	1.55	1.55	1.56	1.57	1.62	1.56	1.58	0.0	1.54
5952.	14.06	1.56	1.56	1.56	1.56	1.55	1.55	1.57	1.57	1.64	1.55	1.57	0.0	1.53
5997.	14.09	1.53	1.56	1.55	1.55	1.55	1.55	1.57	1.57	1.64	1.55	1.57	0.0	1.53
6026.	13.87	1.55	1.54	1.54	1.55	1.55	1.56	1.56	1.57	1.54	1.55	1.56	0.0	1.53
6056.	13.93	1.55	1.55	1.55	1.55	1.55	1.55	1.56	1.56	1.54	1.55	1.57	0.0	1.53
6095.	13.86	1.56	1.55	1.55	1.55	1.53	1.53	1.55	1.55	1.53	1.66	1.55	0.0	1.53
6132.	13.98	1.56	1.56	1.55	1.55	1.55	1.55	1.56	1.56	1.54	1.64	1.55	0.0	1.54
6151.	13.98	1.55	1.55	1.55	1.55	1.55	1.55	1.56	1.56	1.54	1.65	1.55	0.0	1.53
6189.	13.99	1.55	1.55	1.55	1.55	1.55	1.56	1.56	1.56	1.54	1.64	1.55	0.0	1.52

PACK NO. 50
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115 TEST TEMPERATURE 0 °C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	1	2	3	4	5	6	7	8	9	10
5672.	11.77	2.51	1.14	1.20	1.18	1.15	1.16	1.21	1.22	1.20	1.19	
5704.	11.46	2.52	1.10	1.17	1.14	1.11	1.13	1.18	1.19	1.17	1.15	END OF DISCHARGE
5740.	11.85	2.52	1.15	1.20	1.18	1.15	1.16	1.21	1.22	1.20	1.19	
5776.	11.86	2.51	1.15	1.21	1.19	1.16	1.16	1.21	1.22	1.20	1.20	
5796.	11.80	2.52	1.14	1.20	1.18	1.15	1.15	1.20	1.20	1.21	1.19	
5835.	11.75	2.52	1.14	1.20	1.18	1.15	1.16	1.20	1.21	1.21	1.20	
5864.	11.73	2.50	1.14	1.20	1.18	1.15	1.15	1.20	1.20	1.20	1.19	1.18
5912.	11.75	2.49	1.14	1.20	1.17	1.14	1.15	1.20	1.20	1.21	1.19	
5955.	11.76	2.51	1.13	1.19	1.17	1.14	1.15	1.20	1.21	1.19	1.19	
5994.	11.78	2.50	1.14	1.20	1.17	1.15	1.15	1.20	1.20	1.19	1.19	
6014.	11.73	2.49	1.14	1.20	1.17	1.14	1.15	1.20	1.20	1.21	1.19	
6055.	11.75	2.50	1.14	1.20	1.17	1.15	1.15	1.20	1.20	1.21	1.20	
6090.	11.80	2.50	1.15	1.20	1.18	1.15	1.16	1.21	1.22	1.20	1.19	
6119.	11.78	2.49	1.14	1.20	1.18	1.15	1.15	1.20	1.21	1.20	1.19	
6148.	11.76	2.49	1.14	1.20	1.17	1.15	1.15	1.20	1.21	1.19	1.18	
1.44	15.18	7.75	1.17	1.60	1.52	1.61	1.59	1.61	1.59	1.51	1.55	END OF CHARGE
5672.	15.35	8.8	1.61	1.53	1.61	1.61	1.60	1.62	1.61	1.59	1.62	
5704.	15.89	9.8	1.61	1.52	1.61	1.61	1.60	1.61	1.62	1.61	1.63	
5740.	15.99	9.8	1.61	1.53	1.61	1.61	1.60	1.61	1.62	1.61	1.63	
5776.	15.85	8.9	1.61	1.52	1.61	1.61	1.60	1.61	1.62	1.61	1.63	
5796.	15.77	8.7	1.60	1.52	1.61	1.59	1.60	1.57	1.59	1.57	1.58	
5835.	15.60	8.6	1.58	1.50	1.58	1.57	1.59	1.59	1.55	1.55	1.58	
5864.	15.71	8.6	1.58	1.51	1.59	1.57	1.59	1.59	1.57	1.55	1.59	
5912.	15.82	8.5	1.59	1.51	1.59	1.58	1.60	1.58	1.58	1.56	1.60	
5955.	15.79	8.4	1.59	1.52	1.59	1.59	1.61	1.58	1.58	1.56	1.61	
5994.	15.78	8.5	1.59	1.52	1.59	1.59	1.60	1.58	1.58	1.56	1.62	
6014.	15.78	8.6	1.59	1.52	1.59	1.59	1.60	1.58	1.58	1.56	1.63	
6055.	15.76	8.6	1.59	1.51	1.59	1.59	1.60	1.58	1.58	1.56	1.62	
6090.	15.79	8.6	1.59	1.52	1.60	1.60	1.61	1.58	1.58	1.61	1.63	
6119.	15.76	8.5	1.59	1.52	1.59	1.59	1.60	1.58	1.58	1.60	1.62	
6148.	15.73	8.5	1.58	1.52	1.58	1.59	1.60	1.57	1.57	1.55	1.59	

PACK NO. 1
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 25 C
PERCENT OF RECHARGE 125
TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	CELL VOLTAGES				END OF DISCHARGE			
			1	2	3	4	5	6	7	8
5555.	9.24	2.54	.00	1.20	1.17	.00	1.09	1.08	1.20	1.19
5587.	9.13	2.53	.00	1.19	1.15	.00	1.07	1.05	1.18	1.17
5619.	9.21	2.52	.00	1.19	1.16	.00	1.08	1.07	1.19	1.17
5651.	9.23	2.49	.00	1.20	1.17	.00	1.08	1.08	1.19	1.18
5681.	9.26	2.50	.00	1.04	1.19	.00	1.06	1.10	1.21	1.16
5718.	9.24	2.51	.00	1.20	1.17	.00	1.09	1.08	1.20	1.18
5745.	9.23	2.50	.00	1.19	1.17	.00	1.08	1.08	1.20	1.18
5795.	9.14	2.50	.00	1.18	1.15	.00	1.07	1.05	1.18	1.17
5840.	9.16	2.53	.00	1.18	1.15	.00	1.07	1.06	1.18	1.16
5869.	8.79	2.52	.00	1.18	1.17	.00	1.02	.95	1.17	1.12
5899.	8.67	2.51	.00	1.17	1.06	.00	1.00	.93	1.16	1.11
5938.	8.72	2.52	.00	1.17	1.06	.00	1.00	.95	1.17	1.11
5975.	8.97	2.53	.00	1.18	1.12	.00	1.04	1.01	1.18	1.16
5994.	8.56	2.52	.00	1.15	1.04	.00	.97	.91	1.15	1.10
6032.	8.61	2.51	.00	1.14	1.06	.00	.98	.93	1.15	1.09
5555.	11.82	1.35	.00	1.46	1.46	.00	1.47	1.46	1.47	1.47
5587.	11.82	1.30	.00	1.46	1.46	.00	1.51	1.50	1.48	1.47
5619.	11.84	1.33	.00	1.46	1.46	.00	1.51	1.50	1.49	1.47
5651.	11.87	1.36	.00	1.43	1.43	.00	1.52	1.51	1.48	1.48
5681.	11.89	1.57	.00	1.47	1.48	.00	1.53	1.51	1.49	1.49
5718.	11.91	1.57	.00	1.47	1.47	.00	1.52	1.51	1.49	1.49
5745.	11.93	1.57	.00	1.47	1.48	.00	1.52	1.50	1.48	1.48
5795.	11.86	1.57	.00	1.46	1.47	.00	1.52	1.50	1.47	1.47
5840.	11.76	1.14	.00	1.45	1.45	.00	1.50	1.48	1.46	1.46
5869.	11.79	1.08	.00	1.46	1.46	.00	1.50	1.49	1.47	1.47
5899.	11.79	1.08	.00	1.45	1.45	.00	1.50	1.49	1.47	1.47
5938.	11.79	1.08	.00	1.45	1.45	.00	1.50	1.49	1.47	1.47
5975.	11.76	1.08	.00	1.45	1.45	.00	1.46	1.46	1.48	1.46
5994.	11.78	1.09	.00	1.45	1.45	.00	1.46	1.46	1.48	1.46
6032.	11.79	1.04	.00	1.45	1.47	.00	1.50	1.49	1.46	1.47

PACK NO. 2
SONOTONE 5 A.H.

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	DEPTH OF DISCHARGE										TEST TEMPERATURE C ORBIT PERIOD MIN.
			4.00	1	2	3	4	5	6	7	8	9	10
5260.	5.41	3.92	1.16	.00	1.16	1.17	.00	.18	.16	1.16	1.16	.00	.00
5262.	6.41	3.95	1.16	.00	1.16	1.17	.00	.12	.79	1.16	1.16	.00	.00
5263.	5.42	3.93	1.11	.00	1.12	1.15	.00	.00	.00	1.13	1.15	.00	.00
5269.	5.73	4.01	1.15	.00	1.14	1.15	.00	.00	.00	1.16	1.16	.00	.00
5289.	5.52	3.98	1.09	.00	1.11	1.12	.00	.00	.00	1.13	1.12	.00	.00
5330.	5.39	4.01	.98	.00	1.11	1.12	.00	.00	.00	1.13	1.09	.00	.00
5365.	5.69	3.98	1.14	.00	1.15	1.15	.00	.00	.00	1.16	1.13	.00	.00
5394.	5.60	4.01	1.14	.00	1.13	1.13	.00	.00	.00	1.14	1.11	.00	.00
5423.	5.53	4.01	1.12	.00	1.11	1.12	.00	.00	.00	1.13	1.09	.00	.00
5260.	10.58	2.50	.58	1.50	.00	1.50	1.53	.00	1.50	1.47	1.51	1.61	.00
5262.	10.66	1.13	1.53	.00	1.53	1.55	.00	1.53	1.49	1.53	1.56	.00	.00
5263.	10.64	.75	1.52	.00	1.52	1.55	.00	.00	.00	1.54	1.57	.00	.00
5269.	7.57	1.00	1.47	.00	1.46	1.52	.00	.00	.00	1.49	1.63	.00	.00
5289.	7.44	.91	1.46	.00	1.47	1.52	.00	.00	.00	1.48	1.53	.00	.00
5330.	7.43	.91	1.44	.00	1.47	1.53	.00	.00	.00	1.50	1.52	.00	.00
5365.	7.57	.74	1.47	.00	1.50	1.56	.00	.00	.00	1.53	1.54	.00	.00
5394.	7.51	.82	1.48	.00	1.49	1.54	.00	.00	.00	1.51	1.53	.00	.00
5423.	7.49	.87	1.47	.00	1.48	1.53	.00	.00	.00	1.51	1.52	.00	.00

58.

PACK NO. 25
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160
TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	1	2	3	4	5	6	7	8	9	10	END OF DISCHARGE
5560.	11.39	1.49	1.13	1.15	1.16	1.11	1.06	1.17	1.19	1.19	1.13	1.16	
5592.	11.15	1.49	1.11	1.12	1.13	1.09	1.01	1.15	1.17	1.17	1.10	1.14	
5624.	11.37	1.50	1.13	1.15	1.16	1.10	1.04	1.16	1.19	1.19	1.13	1.16	
5686.	11.43	1.48	1.15	1.05	1.18	1.12	1.05	1.17	1.20	1.18	1.15	1.18	
5723.	11.17	1.50	1.12	1.13	1.15	1.09	0.97	1.15	1.18	1.19	1.12	1.17	
5750.	11.64	1.48	1.15	1.18	1.18	1.12	1.09	1.19	1.21	1.21	1.16	1.18	
5800.	9.29	1.49	1.01	1.03	1.04	.97	.17	1.07	1.13	1.13	1.00	1.09	
5845.	11.95	1.51	1.19	1.19	1.20	1.16	1.05	1.24	1.25	1.26	1.23	1.20	
5891.	11.68	1.51	1.17	1.15	1.19	1.13	1.10	1.20	1.22	1.23	1.19	1.18	
5918.	11.40	1.50	1.15	1.16	1.17	1.13	1.00	1.16	1.19	1.20	1.15	1.16	
5937.	11.26	1.49	1.14	1.16	1.15	1.13	1.02	1.15	1.18	1.19	1.13	1.15	
5975.	11.38	1.49	1.15	1.16	1.16	1.12	1.02	1.16	1.19	1.19	1.14	1.16	
5560.	14.62	.70	1.46	1.44	1.45	1.49	1.45	1.45	1.46	1.43	1.44	1.45	
5592.	14.54	.67	1.46	1.44	1.44	1.45	1.48	1.56	1.44	1.42	1.45	1.45	
5624.	14.62	.69	1.46	1.44	1.44	1.46	1.49	1.59	1.44	1.43	1.44	1.45	
5686.	14.62	.74	1.46	1.39	1.46	1.46	1.49	1.61	1.44	1.43	1.43	1.46	
5723.	14.81	.87	1.45	1.48	1.46	1.52	1.52	1.65	1.46	1.44	1.47	1.48	
5750.	14.73	.82	1.45	1.43	1.44	1.50	1.50	1.64	1.45	1.43	1.46	1.46	
5800.	14.73	.88	1.48	1.45	1.46	1.53	1.57	1.57	1.46	1.43	1.44	1.47	
5845.	14.44	.72	1.46	1.46	1.45	1.57	1.42	1.42	1.41	1.43	1.42	1.40	
5891.	14.38	.59	1.44	1.43	1.43	1.53	1.52	1.42	1.41	1.43	1.41	1.42	
5918.	14.51	.68	1.45	1.44	1.44	1.48	1.54	1.48	1.44	1.42	1.45	1.46	
5937.	14.58	.65	1.45	1.43	1.44	1.47	1.60	1.44	1.42	1.45	1.43	1.46	
5975.	14.64	.60	1.46	1.44	1.44	1.48	1.63	1.44	1.42	1.45	1.43	1.46	

51

PACK NO. 53
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115 TEST TEMPERATURE 0 °C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	1.50	CELL Voltages										END OF DISCHARGE
				1	2	3	4	5	6	7	8	9	10	
2742.	12.33	1.51	1.21	1.23	1.24	1.24	1.25	1.24	1.24	1.24	1.24	1.24	1.23	
2786.	12.46	1.50	1.24	1.25	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.24	
2814.	12.38	1.50	1.22	1.24	1.25	1.26	1.26	1.25	1.26	1.26	1.26	1.25	1.21	
2859.	12.37	1.50	1.22	1.23	1.25	1.25	1.25	1.24	1.25	1.25	1.26	1.25	1.22	
2895.	12.34	1.51	1.22	1.23	1.25	1.25	1.25	1.24	1.25	1.25	1.26	1.25	1.21	
2918.	12.38	1.51	1.22	1.23	1.24	1.24	1.25	1.24	1.25	1.25	1.25	1.25	1.24	
														END OF CHARGE
2742.	15.59	.35	.25	1.53	1.53	1.52	1.58	1.55	1.50	1.56	1.67	1.52	1.65	
2786.	15.68	.21	1.52	1.53	1.57	1.61	1.59	1.52	1.64	1.68	1.56	1.51		
2814.	15.60	.22	1.53	1.49	1.55	1.60	1.56	1.48	1.62	1.63	1.53	1.43		
2859.	15.60	.22	1.54	1.54	1.54	1.60	1.56	1.50	1.59	1.68	1.53	1.56		
2895.	15.46	.24	1.55	1.55	1.55	1.60	1.56	1.51	1.59	1.69	1.54	1.39		
2918.	15.70	.21	1.53	1.53	1.54	1.57	1.59	1.52	1.65	1.70	1.57	1.45		

XERO
COPY

PACK NO. 54
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO. VOLTAGE 2.50

PACK CURRENT 1

	1	2	3	4	5	6	7	8	9	10	
2745.	11.77	2.52	1.20	1.17	1.06	1.17	1.22	1.20	1.19	1.21	1.20
2776.	11.78	2.52	1.20	1.17	1.06	1.17	1.21	1.20	1.20	1.21	1.20
2822.	11.73	2.51	1.19	1.16	1.05	1.17	1.21	1.20	1.19	1.21	1.20
2850.	11.73	2.49	1.19	1.16	1.05	1.16	1.21	1.19	1.19	1.21	1.20
2891.	11.75	2.49	1.20	1.17	1.06	1.17	1.21	1.20	1.19	1.21	1.20
2923.	11.74	2.49	1.19	1.17	1.06	1.17	1.21	1.20	1.20	1.21	1.20
2948.	11.75	2.49	1.19	1.17	1.05	1.17	1.21	1.20	1.19	1.22	1.21

	1	2	3	4	5	6	7	8	9	10	
2745.	15.67	.42	1.51	1.57	1.56	1.53	1.54	1.61	1.65	1.69	1.52
2776.	15.55	.40	1.51	1.56	1.55	1.53	1.53	1.60	1.62	1.67	1.50
2822.	15.61	.38	1.51	1.57	1.58	1.52	1.53	1.60	1.65	1.67	1.52
2850.	15.54	.40	1.51	1.56	1.56	1.52	1.53	1.59	1.61	1.65	1.50
2891.	15.63	.40	1.52	1.57	1.58	1.53	1.53	1.59	1.64	1.66	1.53
2923.	15.60	.41	1.51	1.57	1.57	1.53	1.54	1.60	1.65	1.65	1.51
2948.	15.74	.38	1.52	1.56	1.56	1.53	1.55	1.63	1.69	1.70	1.54

XERO
COPY

61.

XERO
COPY

PACK NO. 5
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125
TEST TEMPERATURE 25 °C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	CELL VOLTAGES										END OF DISCHARGE
			1	2	3	4	5	6	7	8	9	10	
2799.	10.99	2.52	1.13	.82	1.07	1.13	1.15	1.16	1.15	1.15	1.16	1.11	
2843.	11.15	2.51	1.14	.85	1.10	1.14	1.17	1.17	1.18	1.17	1.17	1.14	
2871.	11.01	2.51	1.13	.78	1.08	1.12	1.16	1.16	1.17	1.16	1.16	1.13	
2916.	10.71	2.51	1.13	.70	1.05	1.06	1.15	1.15	1.15	1.14	1.16	1.09	
2952.	10.72	2.51	1.14	.70	1.06	1.07	1.15	1.16	1.16	1.11	1.17	1.07	
2975.	10.40	2.52	1.10	.65	1.01	1.03	1.13	1.13	1.14	1.06	1.15	1.04	
													END OF CHARGE
2799.	14.31	.62	1.43	1.46	1.44	1.43	1.44	1.43	1.44	1.44	1.42	1.42	
2843.	14.28	.62	1.42	1.45	1.44	1.43	1.43	1.43	1.43	1.45	1.42	1.42	
2871.	14.24	.62	1.42	1.40	1.44	1.43	1.44	1.43	1.43	1.42	1.43	1.42	
2916.	14.31	.63	1.43	1.46	1.44	1.43	1.43	1.43	1.43	1.45	1.43	1.42	
2952.	14.34	.62	1.43	1.46	1.45	1.44	1.44	1.43	1.44	1.44	1.46	1.43	
2975.	14.27	.63	1.42	1.45	1.43	1.43	1.42	1.42	1.43	1.45	1.42	1.42	

62.

PACK NO. 6
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 40
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	CELL VOLTAGES					END OF DISCHARGE
			1	2	3	4	5	
2707.	8.07	3.94	1.18	1.18	1.19	.00	1.19	1.14
2726.	8.01	4.03	1.17	1.18	1.19	.00	1.18	1.13
2754.	7.97	4.02	1.16	1.17	1.17	.00	1.17	1.12
2795.	7.97	3.99	1.17	1.17	1.17	.00	1.18	1.12
2827.	7.88	4.01	1.16	1.16	1.16	.00	1.17	1.10
2852.	7.97	3.99	1.16	1.17	1.16	.00	1.18	1.12
		1.00						
2707.	10.35	.80	1.46	1.51	1.46	.00	1.47	1.44
2726.	10.59	.97	1.47	1.54	1.48	.00	1.50	1.46
2754.	10.46	.78	1.45	1.51	1.45	.00	1.47	1.44
2795.	10.71	.99	1.47	1.57	1.47	.00	1.53	1.46
2827.	10.71	.97	1.48	1.60	1.48	.00	1.56	1.47
2852.	10.71	.97	1.47	1.55	1.47	.00	1.52	1.46

PACK NO. 29
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160
TEST TEMPERATURE 40 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE 1.50	CURRENT	CELL VOLTAGES					END OF DISCHARGE
			1	2	3	4	5	
2660.	10.69	1.52	.00	1.21	1.22	1.21	1.20	1.12 1.16 1.19
2695.	10.65	1.52	.00	1.21	1.22	1.21	1.20	1.12 1.15 1.19
2729.	10.70	1.50	.00	1.22	1.23	1.21	1.21	1.20 1.16 1.20
2757.	10.69	1.50	.00	1.21	1.22	1.21	1.21	1.20 1.16 1.19
2802.	10.65	1.51	.00	1.22	1.22	1.20	1.20	1.20 1.16 1.19
2838.	10.67	1.49	.00	1.22	1.23	1.20	1.21	1.20 1.16 1.20
2861.	10.68	1.52	.00	1.22	1.22	1.21	1.21	1.19 1.15 1.20
2660.	12.70	.48	.00	1.41	1.41	1.43	1.40	1.44 1.41 1.40
2695.	12.72	.48	.00	1.41	1.42	1.40	1.43	1.41 1.41 1.40
2729.	12.72	.48	.00	1.42	1.42	1.41	1.43	1.41 1.41 1.40
2757.	12.61	.48	.00	1.34	1.39	1.38	1.40	1.37 1.39 1.37
2802.	12.75	.47	.00	1.42	1.42	1.41	1.43	1.41 1.42 1.41
2838.	12.73	.47	.00	1.42	1.42	1.40	1.43	1.42 1.42 1.41
2861.	12.72	.49	.00	1.42	1.41	1.40	1.43	1.40 1.45 1.41

64.

PACK NO: 30
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE 2.50	PACK CURRENT 1	2	3	4	5	6	7	8	9	10	END OF DISCHARGE
2628.	10.14	2.52	1.16	1.17	1.17	1.08	1.17	1.17	.00	1.15	.97	1.15
2659.	10.09	2.50	1.16	1.17	1.01	1.17	1.17	1.17	.00	1.16	.99	1.16
2705.	9.87	2.47	1.14	1.16	1.16	.92	1.16	1.16	.00	1.15	.90	1.15
2733.	10.04	2.48	1.14	1.16	1.16	1.03	1.16	1.16	.00	1.15	.95	1.15
2774.	9.99	2.49	1.15	1.17	1.17	1.03	1.16	1.17	.00	1.15	.90	1.16
2806.	9.95	2.50	1.15	1.17	1.16	1.01	1.16	1.17	.00	1.15	.91	1.15
2831.	10.21	2.50	1.15	1.17	1.17	1.15	1.16	1.17	.00	1.15	.99	1.16
2628.	12.95	.75	1.43	1.44	1.44	1.42	1.47	1.43	.00	1.44	1.41	1.50
2659.	13.03	.72	1.44	1.44	1.45	1.42	1.49	1.44	.00	1.45	1.42	1.52
2705.	13.07	.68	1.43	1.43	1.44	1.40	1.49	1.43	.00	1.45	1.42	1.52
2733.	13.01	.67	1.43	1.44	1.44	1.41	1.49	1.43	.00	1.45	1.41	1.50
2774.	13.09	.70	1.45	1.45	1.46	1.42	1.52	1.44	.00	1.46	1.43	1.51
2806.	13.12	.68	1.44	1.45	1.46	1.42	1.53	1.44	.00	1.46	1.43	1.52
2831.	13.11	.70	1.44	1.45	1.46	1.43	1.52	1.44	.00	1.46	1.43	1.51

651

PACK NO: 61
GULTON 6 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.80	CELL VOLTAGES				TEST TEMPERATURE 0 C ORBIT PERIOD 90 MIN.			
			1	2	3	4	5	6	7	8
5194.	7.04	1.80	.96	1.24	1.18	.00	.00	.00	1.23	1.24
5226.	7.01	1.80	.95	1.24	1.17	.00	.00	.00	1.22	1.23
5258.	7.02	1.80	.94	1.24	1.17	.00	.00	.00	1.23	1.24
5320.	6.97	1.79	.93	1.12	1.17	.00	.00	.00	1.22	1.21
5357.	6.96	1.80	.93	1.24	1.16	.00	.00	.00	1.23	1.24
5384.	6.97	1.80	.93	1.24	1.15	.00	.00	.00	1.23	1.24
5434.	6.93	1.80	.91	1.23	1.14	.00	.00	.00	1.22	1.23
5479.	6.90	1.80	.89	1.23	1.13	.00	.00	.00	1.22	1.23
5525.	7.11	1.79	.98	1.24	1.20	.00	.00	.00	1.24	1.25
5562.	7.15	1.80	1.01	1.25	1.20	.00	.00	.00	1.24	1.25
5581.	7.06	1.79	.95	1.24	1.19	.00	.00	.00	1.23	1.24
5619.	7.07	1.80	.97	1.24	1.19	.00	.00	.00	1.23	1.24
5194.	9.40	1.04	.67	1.69	1.58	1.51	.00	.00	1.55	1.54
5226.	9.34	.67	1.69	1.56	1.51	.00	.00	.00	1.53	1.54
5258.	9.31	.62	1.68	1.55	1.50	.00	.00	.00	1.53	1.53
5320.	9.30	.67	1.69	1.53	1.50	.00	.00	.00	1.52	1.52
5357.	9.34	.69	1.70	1.56	1.50	.00	.00	.00	1.54	1.54
5384.	9.41	.65	1.71	1.60	1.53	.00	.00	.00	1.54	1.54
5434.	9.31	.63	1.68	1.55	1.51	.00	.00	.00	1.53	1.53
5479.	9.33	.62	1.69	1.55	1.50	.00	.00	.00	1.53	1.53
5525.	9.39	.65	1.67	1.55	1.65	.00	.00	.00	1.52	1.52
5562.	9.37	.66	1.68	1.55	1.59	.00	.00	.00	1.52	1.52
5581.	9.39	.65	1.67	1.56	1.58	.00	.00	.00	1.52	1.53
5619.	9.36	.65	1.68	1.55	1.57	.00	.00	.00	1.52	1.53

66.

XERO

XERO
COPY

PACK NO. 62
GULTON 6 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115
TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.00	CELL Voltages									
			1	2	3	4	5	6	7	8	9	10
5384.	8.06	3.01	1.19	1.14	.00	.00	1.13	1.16	1.18	1.18	.00	.00
5420.	8.10	3.00	1.19	1.15	1.14	.00	1.14	1.16	1.18	1.19	.00	.00
5456.	8.14	2.99	1.20	1.16	1.15	.00	1.14	1.17	1.19	1.19	.00	.00
5476.	8.12	2.99	1.19	1.16	1.15	.00	1.14	1.16	1.18	1.18	.00	.00
5515.	8.08	2.99	1.19	1.15	1.14	.00	1.14	1.16	1.19	1.19	.00	.00
5544.	7.94	3.02	1.19	1.13	1.12	.00	1.11	1.13	1.14	1.15	.00	.00
5592.	8.00	3.00	1.18	1.13	1.13	.00	1.13	1.14	1.16	1.18	.00	.00
5635.	7.92	3.03	1.18	1.11	1.11	.00	1.11	1.13	1.15	1.17	.00	.00
5683.	8.27	3.01	1.20	1.19	1.19	.00	1.18	1.20	1.20	1.19	.00	.00
5718.	8.28	3.02	1.20	1.19	1.19	.00	1.18	1.20	1.21	1.19	.00	.00
5747.	8.23	3.01	1.19	1.18	1.19	.00	1.17	1.19	1.20	1.18	.00	.00
5776.	8.36	3.01	1.21	1.20	1.20	.00	1.18	1.20	1.21	1.21	.00	.00

67

5384.	10.69	1.07	1.53	1.54	1.53	.00	.00	1.52	1.52	1.54	1.50	.00
5420.	10.99	.92	1.57	1.62	1.57	.00	.00	1.59	1.56	1.58	1.53	.00
5456.	11.02	.93	1.57	1.64	1.63	.00	.00	1.60	1.56	1.58	1.53	.00
5476.	11.04	.93	1.57	1.63	1.63	.00	.00	1.63	1.56	1.57	1.52	.00
5515.	11.02	.92	1.57	1.63	1.63	.00	.00	1.61	1.57	1.58	1.53	.00
5544.	10.88	.93	1.56	1.58	1.58	.00	.00	1.57	1.55	1.57	1.52	.00
5592.	10.93	.84	1.53	1.62	1.57	.00	.00	1.61	1.56	1.55	1.51	.00
5635.	10.87	.85	1.55	1.58	1.57	.00	.00	1.57	1.55	1.56	1.51	.00
5683.	10.56	1.08	1.51	1.54	1.52	.00	.00	1.54	1.51	1.53	1.47	.00
5718.	10.53	1.02	1.52	1.53	1.52	.00	.00	1.52	1.51	1.52	1.46	.00
5747.	10.77	1.26	1.54	1.57	1.56	.00	.00	1.57	1.53	1.55	1.48	.00
5776.	10.93	.93	1.56	1.61	1.61	.00	.00	1.60	1.55	1.57	1.52	.00

XERO
COPY

XERO
COPY

PACK NO. 37
GULTON 6 A.H.

DEPTH OF DISCHARGE 15 TEST TEMPERATURE 40 °C
PERCENT OF RECHARGE 160 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT	1	2	3	CELL VOLTAGES	4	5	6	7	8	9	10	END OF
														DISCHARGE
4750.	6.36	1.80	1.12	.82	.00	.00	1.18	1.02	1.15	.00	1.15	.00	.00	END OF
4782.	6.10	1.80	1.04	.79	.00	.00	1.16	.97	1.07	.00	1.13	.00	.00	CHARGE
4814.	6.46	1.80	1.18	.80	.00	.00	1.18	1.03	1.15	.00	1.17	.00	.00	
4876.	5.90	1.79	1.17	.70	.00	.00	1.15	.94	.71	.00	1.16	.00	.00	
4897.	5.59	1.80	1.13	.78	.00	.00	1.16	.86	.62	.00	1.12	.00	.00	
4750.	8.70	1.44	1.14	1.43	1.51	.00	.00	1.45	1.49	1.44	.00	1.43	.00	END OF
4782.	8.67	1.12	1.42	1.51	.00	.00	1.44	1.48	1.42	.00	1.42	.00	.00	
4814.	8.69	1.15	1.42	1.51	.00	.00	1.44	1.49	1.43	.00	1.43	.00	.00	
4876.	8.69	1.19	1.43	1.51	.00	.00	1.44	1.48	1.41	.00	1.42	.00	.00	
4897.	8.71	1.21	1.44	1.52	.00	.00	1.45	1.50	1.43	.00	1.43	.00	.00	

68.

PACK NO. 65
GULTON 6 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	CELL Voltages					END OF DISCHARGE		
			1	2	3	4	5	6	7	8
2874.	12.36	1.82	1.25	1.26	1.25	1.25	1.25	1.25	1.22	1.25
2918.	12.49	1.81	1.26	1.27	1.26	1.27	1.26	1.26	1.24	1.27
2946.	12.42	1.81	1.25	1.26	1.26	1.26	1.26	1.26	1.23	1.26
2991.	12.38	1.82	1.25	1.26	1.25	1.25	1.25	1.25	1.22	1.26
3027.	12.32	1.81	1.25	1.25	1.24	1.25	1.24	1.24	1.22	1.25
3050.	12.36	1.83	1.24	1.25	1.24	1.25	1.25	1.25	1.22	1.25
		.41								
2874.	15.54	.33	1.59	1.60	1.54	1.53	1.52	1.62	1.52	1.50
2918.	15.43	.41	1.57	1.56	1.55	1.54	1.53	1.51	1.60	1.53
2946.	15.31	.38	1.56	1.49	1.53	1.52	1.51	1.48	1.56	1.47
2991.	15.35	.34	1.56	1.54	1.53	1.53	1.52	1.50	1.60	1.52
3027.	15.32	.33	1.58	1.57	1.54	1.53	1.51	1.44	1.60	1.52
3050.	15.36	.35	1.56	1.55	1.53	1.53	1.52	1.49	1.61	1.52

69

PACK NO. 66
GULTON 6 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	CELL Voltages					END OF CHARGE
			1	2	3	4	5	
2567.	5.93	3.04	1.19	1.21	.00	1.17	.00	.00
2598.	5.94	3.03	1.19	1.21	.00	1.16	.00	.00
2644.	5.89	3.04	1.19	1.21	.00	1.14	.00	.00
2672.	5.88	3.02	1.18	1.20	.00	1.14	.00	.00
2713.	5.88	3.03	1.19	1.21	.00	1.13	.00	.00
2745.	5.85	3.03	1.19	1.21	.00	1.10	.00	.00
2770.	5.91	3.03	1.19	1.21	.00	1.16	.00	.00
2567.	7.78	.69	1.58	1.57	.00	1.55	.00	.00
2598.	7.76	.58	1.58	1.57	.00	1.54	.00	.00
2644.	7.77	.53	1.57	1.58	.00	1.53	.00	.00
2672.	7.74	.53	1.57	1.57	.00	1.52	.00	.00
2713.	7.77	.54	1.58	1.58	.00	1.53	.00	.00
2745.	7.78	.53	1.58	1.59	.00	1.52	.00	.00
2770.	7.74	.56	1.56	1.57	.00	1.54	.00	.00

70.

XERO

XERO

PACK NO. 17
GULTON 6 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125
TEST TEMPERATURE 25 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	CELL VOLTAGES					END OF DISCHARGE			
			1	2	3	4	5				
2687.	5.45	2.99	.00	.00	1.09	.00	1.11	1.09	1.13	1.07	.00
2731.	5.89	3.01	.00	.00	1.18	.00	1.20	1.20	1.20	1.18	.00
2804.	5.62	3.00	.00	.00	1.10	.00	1.15	1.15	1.17	1.09	.00
2840.	5.73	2.98	.00	.00	1.13	.00	1.14	1.15	1.17	1.18	.00
2863.	5.69	3.01	.00	.00	1.09	.00	1.14	1.14	1.16	1.19	.00
2885.	4.40	2.59	.00	.00	1.09	.00	1.11	1.10	1.15	.01*	.00
2687.	7.15	.75	.00	.00	1.44	.00	1.44	1.43	1.44	1.42	.00
2731.	7.12	.75	.00	.00	1.43	.00	1.45	1.43	1.45	1.40	.00
2804.	7.13	.74	.00	.00	1.43	.00	1.44	1.42	1.45	1.40	.00
2840.	7.13	.74	.00	.00	1.44	.00	1.45	1.43	1.45	1.40	.00
2863.	7.10	.77	.00	.00	1.43	.00	1.43	1.42	1.44	1.39	.00
2885.	7.13	.75	.00	.00	1.44	.00	1.45	1.43	1.45	1.39	.00

*
PACK FAILED: CYCLE 2885.

71.

PACK NO. 42
GULTON 6 A.H.

DEPTH OF DISCHARGE 25 °TEST TEMPERATURE 40 °C
PERCENT OF RECHARGE 160 ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	CELL VOLTAGES				END OF DISCHARGE			
			1	2	3	4	5	6	7	8
2424.	6.79	3.00	.00	1.17	1.15	1.06	1.16	1.17	.00	.00
2455.	6.78	3.00	.00	1.16	1.16	1.05	1.15	1.17	.00	.00
2529.	6.75	2.99	.00	1.16	1.16	1.04	1.12	1.17	.00	.00
2570.	6.60	3.03	.00	1.16	1.16	1.00	1.06	1.16	.00	.00
2602.	6.58	3.03	.00	1.15	1.15	.99	1.05	1.16	.00	.00
2627.	6.60	3.02	.00	1.16	1.15	.97	1.08	1.17	.00	.00
2424.	8.96	.96	.96	.76	.00	1.52	1.44	1.57	1.45	.00
2455.	8.78	.58	.00	1.47	1.44	1.53	1.43	1.51	.00	.00
2529.	8.77	.64	.00	1.47	1.45	1.53	1.42	1.48	.00	.00
2570.	8.86	.61	.00	1.49	1.46	1.56	1.43	1.50	.00	.00
2602.	8.90	.60	.00	1.49	1.46	1.56	1.44	1.52	.00	.00
2627.	8.82	.65	.00	1.48	1.45	1.52	1.44	1.54	.00	.00

72.

PACK NO. 110
G.E. 12 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115
TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	1	2	3	CELL VOLTAGES
5392.	6.13	3.60	1.24	1.23	1.24	1.23 1.23
5424.	6.12	3.59	1.23	1.22	1.23	1.23 1.23
5456.	6.11	3.64	1.23	1.22	1.23	1.23 1.23
5518.	6.14	3.61	1.24	1.23	1.19	1.24 1.25
5555.	6.13	3.63	1.24	1.23	1.24	1.24 1.23
5582.	6.24	3.63	1.26	1.25	1.26	1.25 1.25
5632.	6.17	3.63	1.24	1.24	1.24	1.24 1.24
5677.	6.18	3.64	1.24	1.23	1.24	1.24 1.24
5706.	6.19	3.64	1.25	1.24	1.25	1.25 1.25
5736.	6.19	3.63	1.25	1.24	1.25	1.24 1.24
5775.	6.19	3.63	1.25	1.24	1.25	1.25 1.25

73.

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	1	2	3	CELL VOLTAGES
5392.	7.76	1.37	1.57	1.51	1.53	1.55 1.53
5424.	7.68	1.38	1.55	1.59	1.51	1.53 1.52
5456.	7.73	1.52	1.54	1.62	1.24	1.54 1.53
5518.	7.78	1.40	1.56	1.60	1.52	1.53 1.53
5555.	7.94	1.57	1.60	1.65	1.56	1.58 1.57
5582.	7.95	1.47	1.61	1.62	1.58	1.58 1.59
5632.	7.94	1.43	1.69	1.63	1.57	1.58 1.58
5677.	7.95	1.41	1.60	1.64	1.56	1.58 1.57
5706.	7.93	1.44	1.60	1.64	1.57	1.58 1.57
5736.	7.93	1.43	1.60	1.64	1.57	1.58 1.57
5775.	7.93	1.43	1.60	1.64	1.57	1.58 1.57

END OF
DISCHARGE

XERO

XERO

END OF
CHARGE

PACK NO. 124
G.E. 12 A.H.

TEST TEMPERATURE 25
DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	CELL VOLTAGES				
			1	2	3	4	5
5207.	5.83	5.98	1.19	1.20	1.11	1.19	1.20
5239.	5.98	5.99	1.22	1.22	1.16	1.22	1.22
5271.	5.38	5.65	1.15	1.15	.82	1.14	1.16
5333.	5.89	5.96	1.21	1.12	1.11	1.22	1.21
5370.	6.13	6.08	1.25	1.25	1.20	1.25	1.25
5397.	6.05	6.08	1.23	1.23	1.18	1.23	1.23
5447.	5.99	6.05	1.21	1.22	1.16	1.22	1.22
5492.	5.14	5.43	1.13	1.13	.65	1.12	1.14
5521.	6.13	5.94	1.25	1.25	1.19	1.25	1.25
5550.	6.03	6.08	1.23	1.23	1.16	1.23	1.23
5590.	6.01	6.08	1.22	1.23	1.16	1.23	1.23
5634.	6.09	6.01	1.23	1.24	1.19	1.24	1.24
5207.	7.69	7.33	3.45	1.47	1.47	1.49	1.47
5239.	7.09	2.99	1.84	1.55	1.52	1.61	1.51
5271.	7.33	2.81	1.41	1.41	1.40	1.49	1.40
5333.	7.28	2.57	1.46	1.46	1.45	1.51	1.45
5370.	8.28	2.45	1.67	1.67	1.63	1.72	1.62
5397.	8.12	2.45	1.62	1.62	1.60	1.70	1.60
5447.	8.15	2.34	1.63	1.63	1.59	1.71	1.59
5492.	7.18	3.49	1.41	1.41	1.41	1.53	1.41
5521.	8.15	2.16	1.63	1.63	1.61	1.70	1.60
5550.	7.67	2.75	1.55	1.55	1.52	1.57	1.54
5590.	8.12	2.25	1.62	1.62	1.58	1.71	1.58
5634.	8.24	2.23	1.65	1.65	1.61	1.70	1.60

DISCHARGE
END OF

END OF
CHARGE

* 1/2 Hr. Int. Charge

74.

XERO

XERO

XERO
COPY

PACK NO. 82
G.E. 12 A.H.

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

DEPTH OF DISCHARGE
PERCENT OF RECHARGE

PACK CURRENT
NO. VOLTAGE 6.00 1 2 3

CELL VOLTAGES
4 5

CYCLE NO.	PACK VOLTAGE	CURRENT	DEPTH OF DISCHARGE	END OF CHARGE
5588.	5.71	5.93	1.17	1.14 1.15 1.16
5620.	5.71	5.93	1.16	1.13 1.14 1.15
5652.	5.72	5.93	1.16	1.13 1.15 1.16
5714.	5.77	5.88	1.17	1.09 1.15 1.17
5751.	5.70	5.95	1.17	1.13 1.14 1.15
5778.	5.71	5.93	1.16	1.13 1.14 1.16
5828.	5.62	5.92	1.15	1.14 1.13 1.14
5873.	5.66	5.95	1.15	1.15 1.12 1.15
5902.	5.65	5.95	1.15	1.15 1.14 1.15
5932.	5.67	5.94	1.16	1.15 1.12 1.15
5971.	5.73	5.96	1.17	1.16 1.14 1.16
6008.	5.75	5.93	1.17	1.16 1.15 1.16
6027.	5.70	5.92	1.16	1.14 1.15 1.16

CYCLE NO.	PACK VOLTAGE	CURRENT	DEPTH OF DISCHARGE	END OF CHARGE
5588.	7.37	3.73	1.50	1.48 1.47 1.48
5620.	7.37	3.73	1.50	1.48 1.47 1.48
5652.	7.37	3.73	1.50	1.48 1.47 1.48
5714.	7.39	3.72	1.50	1.48 1.47 1.48
5751.	7.39	3.76	1.51	1.49 1.48 1.49
5778.	7.41	3.69	1.51	1.49 1.48 1.49
5828.	7.36	3.74	1.50	1.48 1.47 1.48
5873.	7.39	3.63	1.50	1.48 1.47 1.48
5902.	7.39	3.62	1.50	1.48 1.47 1.49
5932.	7.41	3.61	1.51	1.49 1.48 1.49
5971.	7.42	3.61	1.51	1.49 1.48 1.49
6008.	7.29	3.66	1.48	1.46 1.47 1.49
6027.	7.41	3.55	1.50	1.48 1.48 1.49

XEROX
COPY

PACK NO. 85
G.E. 12 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO. VOLTAGE 3.60

PACK CURRENT 1 2 3 4 5

CELL VOLTAGES

5237. 5.91 3.60 1.21 1.20 1.18 1.19
5267. 5.94 3.59 1.21 1.20 1.19 1.19
5303. 5.98 3.59 1.20 1.19 1.19 1.19
5371. 5.89 3.58 1.20 1.19 1.19 1.19
5400. 5.94 3.59 1.21 1.20 1.19 1.19
5435. 5.95 3.60 1.19 1.19 1.18 1.19
5483. 5.94 3.59 1.20 1.20 1.18 1.19
5520. 5.95 3.59 1.20 1.20 1.18 1.19
5559. 5.92 3.62 1.20 1.20 1.19 1.19
5594. 5.94 3.60 1.21 1.20 1.19 1.19
5620. 5.93 3.62 1.21 1.20 1.19 1.19
5653. 5.94 3.61 1.21 1.20 1.18 1.19
5684. 5.92 3.61 1.20 1.20 1.18 1.18
5726. 5.91 3.59 1.20 1.19 1.18 1.19

END OF
DISCHARGE

5237. 7.16 1.99 1.44 1.45 1.44 1.44
5267. 7.17 1.99 1.44 1.45 1.44 1.44
5303. 7.20 1.50 1.43 1.44 1.45 1.44
5371. 7.20 2.24 1.45 1.45 1.45 1.45
5400. 7.22 2.49 1.45 1.45 1.45 1.45
5435. 7.19 2.42 1.44 1.45 1.45 1.45
5483. 7.21 2.36 1.44 1.45 1.45 1.45
5520. 7.22 2.29 1.44 1.45 1.45 1.45
5559. 7.22 2.27 1.45 1.45 1.45 1.45
5594. 7.22 2.35 1.45 1.45 1.45 1.45
5620. 7.23 2.31 1.45 1.46 1.46 1.46
5653. 7.24 2.36 1.45 1.46 1.46 1.46
5684. 7.23 2.37 1.45 1.45 1.45 1.45
5726. 7.19 2.38 1.44 1.45 1.45 1.45

END OF
CHARGE

PACK NO. 99
G.E. 12 A.H.

DEPTH OF DISCHARGE 25 TEST TEMPERATURE 40 C
PERCENT OF RECHARGE 160 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT	CELL VOLTAGES				
			1	2	3	4	5
4781.	2.97	5.94	.84	.00	.00	1.10	1.08
4811.	3.34	6.02	1.16	.00	.00	1.11	1.11
4847.	2.89	5.90	.72*	.00	.00	1.11	1.09
4853.	2.09	5.02	.06*	.00	.00	1.10	1.08
							END OF CHARGE
4781.	4.37	4.80					END OF CHARGE
4811.	4.40	3.54	1.45	.00	.00	1.48	1.46
4847.	4.36	3.40	1.47	.00	.00	1.49	1.46
4853.	4.36	3.80	1.45	.00	.00	1.48	1.46
							END OF CHARGE

* Pack failed: cycle 4853

PACK NO. 111
G.E. 12 A.H.

CYCLE NO.	PACK VOLTAGE	CURRENT	DEPTH OF DISCHARGE			TEST TEMPERATURE 0 ORBIT PERIOD 3 HOURS C
			3.60	1	2	
2736.	6.18	3.63	1.25	1.25	1.24	1.25
2767.	6.19	3.62	1.25	1.25	1.23	1.24
2813.	6.06	3.66	1.22	1.23	1.21	1.22
2841.	6.08	3.63	1.22	1.23	1.20	1.22
2888.	6.28	3.57	1.26	1.27	1.25	1.26
2914.	6.22	3.63	1.25	1.26	1.24	1.25
						END OF DISCHARGE
						END OF CHARGE

PACK NO. 125
G.E. 12 A.H.

DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 °C
PERCENT OF RECHARGE 115 ORBIT PERIOD 3 HOURS

THE JOURNAL OF COLLEGE EDUCATION

79.

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PACK NO. 83
G.E. 12 A.H.

TEST TEMPERATURE 25 C
ORBIT PERIOD 3 HOURS

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

CYCLE NO.	PACK VOLTAGE	CURRENT	CELL VOLTAGES				
			1	2	3	4	5
2777.	5.68	6.04	1.15	1.15	1.14	1.13	
2808.	5.71	6.04	1.16	1.15	1.15	1.13	
2829.	5.81	6.00	1.17	1.17	1.16	1.15	
2857.	5.73	5.99	1.16	1.15	1.14	1.13	
2898.	5.73	6.04	1.16	1.15	1.15	1.13	
2930.	5.74	6.05	1.16	1.15	1.15	1.14	
2955.	5.69	6.04	1.15	1.14	1.13	1.13	
							END OF CHARGE
2777.	7.12	1.50	1.44	1.43	1.43	1.43	1.43
2808.	7.15	1.51	1.44	1.44	1.43	1.43	1.43
2829.	7.15	1.53	1.43	1.42	1.42	1.42	1.42
2857.	7.14	1.51	1.43	1.43	1.42	1.42	1.42
2898.	7.17	1.53	1.43	1.43	1.43	1.42	1.42
2930.	7.17	1.51	1.44	1.43	1.43	1.42	1.42
2955.	7.19	1.54	1.44	1.43	1.43	1.43	1.43

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PACK NO. 97
G.E. 12 A.H.

CYCLE NO.	PACK VOLTAGE	CURRENT 9.60	DEPTH OF DISCHARGE 40 PERCENT OF RECHARGE 125					TEST TEMPERATURE 25 C ORBIT PERIOD 3 HOURS
			1	2	3	4	5	
2767.	5.57	9.46	1.12	1.13	1.12	1.11	1.12	END OF DISCHARGE
2798.	5.59	9.64	1.13	1.13	1.14	1.12	1.13	
2819.	5.78	9.67	1.16	1.17	1.17	1.16	1.16	
2847.	5.57	9.49	1.12	1.13	1.12	1.11	1.12	
2888.	5.58	9.57	1.13	1.13	1.13	1.12	1.13	
2920.	5.73	9.58	1.17	1.16	1.16	1.15	1.16	
2945.	5.62	9.52	1.13	1.14	1.14	1.13	1.13	
								END OF CHARGE
2767.	7.44	2.41	1.49	1.51	1.47	1.50	1.49	
2798.	7.44	2.23	1.49	1.51	1.48	1.50	1.50	
2819.	7.37	2.25	1.48	1.50	1.46	1.49	1.48	
2847.	7.39	2.18	1.48	1.50	1.46	1.49	1.49	
2888.	7.43	2.21	1.49	1.51	1.47	1.50	1.50	
2920.	7.20	2.38	1.45	1.45	1.44	1.45	1.45	
2945.	7.45	2.21	1.49	1.53	1.47	1.50	1.50	

81.

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PACK NO. 86
G.E. 12 A.H.

TEST TEMPERATURE 15 C
ORBIT PERIOD 40 HOURS
DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	DEPTH OF DISCHARGE	CELL VOLTAGES
	3.60	1	2	3 4 5
2675.	5.82	3.58	1.18	1.16 1.17 1.18 1.17
2699.	5.82	3.62	1.19	1.16 1.17 1.18 1.17
2735.	5.78	3.59	1.18	1.15 1.16 1.18 1.17
2773.	5.83	3.59	1.19	1.16 1.17 1.18 1.17
2814.	5.80	3.59	1.19	1.16 1.17 1.18 1.16
2846.	5.83	3.62	1.19	1.16 1.17 1.18 1.17
2871.	5.80	3.57	1.19	1.15 1.16 1.17 1.16
2675.	7.02	1.16	1.41	1.41 1.41 1.41 1.41
2699.	7.03	1.17	1.41	1.42 1.42 1.42 1.42
2735.	7.03	1.16	1.42	1.42 1.42 1.42 1.42
2773.	7.03	1.15	1.41	1.41 1.42 1.41 1.41
2814.	7.05	1.16	1.42	1.42 1.42 1.41 1.42
2846.	7.05	1.16	1.42	1.42 1.42 1.42 1.42
2871.	7.04	1.17	1.42	1.42 1.42 1.41 1.41

END OF
DISCHARGE

82.

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PACK NO. 100
G.E. 12 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 160
TEST TEMPERATURE 40 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	1	2	3	CELL VOLTAGES
2542.	5.64	5.95	1.16	1.15	1.15	1.11 1.11
2566.	5.63	5.94	1.16	1.15	1.15	1.11 1.11
2602.	5.60	5.93	1.16	1.15	1.14	1.09 1.10
2640.	5.69	5.93	1.17	1.16	1.15	1.12 1.13
2681.	5.63	5.91	1.16	1.15	1.14	1.10 1.11
2713.	5.67	5.97	1.16	1.16	1.16	1.12 1.13
2738.	5.68	5.95	1.16	1.16	1.16	1.11 1.12

END OF
DISCHARGE

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	1	2	3	CELL VOLTAGES
2542.	7.22	1.92	1.47	1.46	1.46	1.43 1.44
2566.	7.23	1.95	1.47	1.46	1.46	1.43 1.44
2602.	7.22	1.94	1.47	1.46	1.46	1.43 1.44
2640.	7.23	1.94	1.46	1.46	1.46	1.43 1.44
2681.	7.24	1.87	1.47	1.46	1.46	1.43 1.44
2713.	7.26	1.90	1.47	1.47	1.47	1.44 1.45
2738.	7.23	1.93	1.46	1.46	1.46	1.43 1.44

END OF
CHARGE

83.

PACK NO. 73
GULTON 20 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125
TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	CELL Voltages				
			1	2	3	4	5
5225.	4.42	10.12	1.09	1.14	.00	1.12	1.13
5257.	4.40	10.11	1.08	1.14	.00	1.11	1.12
5289.	4.42	10.12	1.09	1.14	.00	1.11	1.12
5351.	4.39	10.09	1.09	1.02	.00	1.13	1.11
5388.	4.37	10.07	1.08	1.13	.00	1.11	1.11
5415.	4.41	10.11	1.08	1.14	.00	1.12	1.12
5465.	4.33	10.05	1.06	1.12	.00	1.09	1.10
5510.	4.39	10.08	1.07	1.13	.00	1.11	1.11
5539.	4.36	10.01	1.08	1.13	.00	1.10	1.10
5569.	4.35	10.04	1.08	1.13	.00	1.09	1.10
5608.	4.42	10.07	1.10	1.15	.00	1.11	1.11
5645.	4.50	10.10	1.12	1.16	.00	1.13	1.14
5664.	4.35	10.00	1.07	1.13	.00	1.09	1.09
5225.	5.96	6.01	6.25	1.54	1.50	.00	1.46
5257.	5.95	5.37	1.54	1.50	.00	1.46	1.48
5289.	5.95	5.61	1.54	1.50	.00	1.46	1.49
5351.	5.99	5.66	1.54	1.50	.00	1.46	1.48
5388.	6.03	6.27	1.57	1.52	.00	1.47	1.50
5415.	5.99	5.49	1.55	1.51	.00	1.47	1.49
5465.	5.94	5.59	1.54	1.49	.00	1.46	1.48
5510.	5.94	5.13	1.53	1.49	.00	1.45	1.48
5539.	5.96	4.51	1.55	1.49	.00	1.46	1.48
5569.	5.97	4.54	1.55	1.49	.00	1.46	1.48
5608.	5.97	4.49	1.55	1.49	.00	1.46	1.48
5645.	5.97	4.44	1.55	1.50	.00	1.46	1.49
5664.	5.97	4.61	1.55	1.49	.00	1.46	1.48

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PACK NO. 76
GULTON 20 A.H.

DEPTH OF DISCHARGE 15
TEST TEMPERATURE 40 C
PERCENT OF RECHARGE 160
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	CURRENT	CELL VOLTAGES					END OF CHARGE
				1	2	3	4	5	
5037.	5.71	6.07	1.19	1.12	1.15	1.16	1.16	1.16	
5069.	5.67	6.04	1.18	1.11	1.14	1.15	1.14	1.14	
5105.	5.63	6.04	1.17	1.10	1.13	1.14	1.13	1.13	
5129.	5.63	6.04	1.17	1.10	1.14	1.14	1.13	1.13	
5161.	5.62	6.04	1.17	1.09	1.13	1.14	1.12	1.12	
5200.	5.60	6.05	1.17	1.09	1.14	1.14	1.13	1.13	
5229.	5.65	6.04	1.16	1.08	1.12	1.12	1.11	1.11	
5320.	5.59	6.05	1.16	1.08	1.13	1.14	1.11	1.11	
5359.	5.60	6.04	1.17	1.09	1.13	1.15	1.12	1.12	
5379.	5.54	6.03	1.16	1.07	1.13	1.13	1.10	1.10	
5421.	5.58	6.04	1.16	1.08	1.13	1.14	1.11	1.11	
5455.	5.68	6.02	1.17	1.11	1.15	1.15	1.14	1.14	
5484.	5.62	6.03	1.17	1.10	1.15	1.14	1.12	1.12	
5513.	5.68	6.03	1.18	1.10	1.15	1.15	1.14	1.14	
5037.	7.26	4.80	1.46	1.50	1.44	1.47	1.44	1.44	
5069.	7.21	4.30	1.45	1.49	1.43	1.46	1.44	1.44	
5105.	7.25	4.27	1.45	1.49	1.43	1.47	1.44	1.44	
5129.	7.27	4.33	1.46	1.50	1.44	1.47	1.44	1.44	
5161.	7.25	4.40	1.45	1.50	1.44	1.47	1.43	1.43	
5200.	7.24	4.32	1.45	1.49	1.44	1.47	1.44	1.44	
5229.	7.26	4.27	1.46	1.50	1.44	1.47	1.44	1.44	
5320.	7.25	3.50	1.45	1.48	1.43	1.47	1.44	1.44	
5359.	7.26	3.36	1.46	1.50	1.44	1.48	1.44	1.44	
5379.	7.25	3.42	1.45	1.49	1.44	1.47	1.44	1.44	
5420.	7.29	3.63	1.46	1.50	1.44	1.48	1.44	1.44	
5455.	7.27	3.75	1.46	1.51	1.44	1.47	1.44	1.44	
5484.	7.31	4.19	1.47	1.52	1.44	1.49	1.48	1.48	
5513.	7.28	4.11	1.46	1.51	1.44	1.48	1.44	1.44	

851

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PACK NO. 102
GULTON 20 A.H.

TEST TEMPERATURE 0 °C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT	DEPTH OF DISCHARGE PERCENT OF RECHARGE				
			1	2	3	4	5
2484.	4.91	6.07	1.24	.00	1.24	1.24	1.24
2517.	4.91	6.08	1.24	.00	1.24	1.24	1.23
2553.	4.86	6.01	1.24	.00	1.25	1.22	1.21
2581.	4.93	6.00	1.23	.00	1.24	1.24	1.24
2626.	4.93	5.99	1.24	.00	1.24	1.25	1.24
2663.	4.93	5.96	1.24	.00	1.25	1.25	1.24
2685.	4.94	6.01	1.23	.00	1.24	1.25	1.24
2484.	6.06	1.02	1.54	.00	1.56	1.49	1.52
2517.	6.11	1.03	1.55	.00	1.58	1.49	1.53
2553.	5.94	1.23	1.57	.00	1.63	1.40	1.39
2581.	6.09	1.08	1.52	.00	1.54	1.44	1.48
2626.	6.08	1.05	1.55	.00	1.57	1.48	1.51
2663.	6.08	1.05	1.54	.00	1.57	1.49	1.52
2685.	6.14	.99	1.53	.00	1.63	1.48	1.53

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86.

XERO
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PACK NO. 116
GULTON 20 A.H.

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO. VOLTAGE 10.00

CYCLE NO.	PACK VOLTAGE	CURRENT	DEPTH OF DISCHARGE				
			1	2	3	4	5
2341.	5.94	9.53	1.21	1.21	1.15	1.21	1.19
2374.	5.90	10.11	1.21	1.20	1.15	1.21	1.18
2410.	5.91	9.95	1.21	1.21	1.15	1.21	1.19
2438.	5.95	9.88	1.21	1.21	1.16	1.21	1.19
2483.	5.93	9.66	1.21	1.21	1.15	1.21	1.19
2519.	5.89	9.53	1.20	1.20	1.15	1.21	1.18
2542.	5.84	10.03	1.19	1.19	1.13	1.19	1.17

END OF
DISCHARGE

END OF
CHARGE

87.

PACK NO. 77
GULTON 20 A.H.

TEST TEMPERATURE 40 C
ORBIT PERIOD 3 HOURS

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	1	2	3	4	5
2540.	5.62	6.00	1.15	1.12	1.10	1.12	1.18
2571.	5.63	5.99	1.16	1.13	1.10	1.12	1.17
2617.	5.57	6.06	1.14	1.11	1.09	1.11	1.17
2645.	5.62	5.98	1.14	1.12	1.10	1.12	1.17
2686.	5.64	6.01	1.15	1.12	1.11	1.13	1.18
2718.	5.62	6.01	1.14	1.12	1.10	1.12	1.18
2770.	5.64	6.00	1.16	1.12	1.10	1.13	1.18

END OF
DISCHARGE

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	1	2	3	4	5
2540.	7.07	1.92	1.43	1.42	1.41	1.42	1.43
2571.	7.09	1.94	1.43	1.42	1.42	1.42	1.43
2617.	7.10	1.91	1.42	1.42	1.42	1.43	1.43
2645.	7.08	1.91	1.42	1.42	1.42	1.42	1.43
2686.	7.11	1.93	1.43	1.43	1.42	1.43	1.44
2718.	7.12	1.91	1.43	1.43	1.43	1.43	1.44
2770.	7.10	1.95	1.43	1.43	1.42	1.42	1.43

END OF
CHARGE

89.

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PACK NO. 91
GULTON 20 A.H.

TEST TEMPERATURE 40 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 10.00	DEPTH OF DISCHARGE 25 PERCENT OF RECHARGE 160					END OF DISCHARGE
			1	2	3	4	5	
2452.	5.43	10.11	1.13	1.10	1.12	1.04	1.09	
2483.	5.38	10.12	1.12	1.10	1.13	.99	1.10	
2529.	5.32	10.10	1.12	1.10	1.11	.95	1.09	
2557.	5.38	10.10	1.12	1.11	1.12	.98	1.09	
2598.	5.24	10.02	1.08	1.05	1.08	1.05	1.03	
2630.	5.24	10.05	1.08	1.06	1.09	1.03	1.04	
2655.	5.32	10.04	1.09	1.08	1.10	1.04	1.06	
								END OF CHARGE
2452.	7.23	3.20	1.46	1.44	1.48	1.43	1.44	
2483.	7.25	2.94	1.46	1.45	1.50	1.43	1.45	
2529.	7.28	2.76	1.46	1.45	1.50	1.44	1.46	
2557.	7.15	2.68	1.47	1.46	1.46	1.41	1.42	
2598.	7.21	2.18	1.44	1.43	1.44	1.41	1.44	
2630.	7.21	1.91	1.44	1.44	1.47	1.45	1.44	
2655.	7.19	1.92	1.44	1.44	1.47	1.45	1.44	
		2.06	1.44	1.44	1.46	1.44	1.44	
								END OF CHARGE

89.

PACK NO. 84
GOULD 20 A.H.

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	DEPTH OF DISCHARGE 15 PERCENT OF RECHARGE 115				
			1	2	3	4	5
5327.	6.34	6.03	1.28	1.28	1.27	1.26	1.28
5359.	6.31	6.05	1.28	1.28	1.26	1.26	1.27
5395.	6.15	6.02	1.24	1.24	1.23	1.22	1.23
5419.	6.18	6.02	1.25	1.25	1.24	1.24	1.24
5420.	6.32	6.07	1.28	1.28	1.27	1.26	1.27
5519.	6.07	6.02	1.19	1.19	1.17	1.17	1.18
5610.	6.29	6.06	1.27	1.27	1.26	1.25	1.26
5649.	6.29	6.04	1.27	1.27	1.26	1.25	1.26
5669.	6.30	6.02	1.27	1.27	1.26	1.25	1.26
5710.	6.29	6.05	1.27	1.27	1.26	1.25	1.26
5745.	6.31	6.04	1.27	1.27	1.26	1.25	1.26
5774.	6.32	6.02	1.28	1.27	1.26	1.25	1.26
5803.	6.27	5.98	1.27	1.27	1.27	1.25	1.27
		3.45	1.61	1.58	1.66	1.58	1.59
5327.	7.98	2.62	1.54	1.54	1.57	1.55	1.55
5359.	7.73	2.18	1.50	1.52	1.53	1.50	1.53
5395.	7.57	2.60	1.57	1.61	1.64	1.55	1.59
5419.	7.93	2.98	1.87	1.53	1.53	1.55	1.54
5420.	7.66	1.87	1.50	1.52	1.53	1.49	1.52
5519.	7.51	2.71	1.50	1.52	1.53	1.49	1.52
5610.	7.85	2.52	1.55	1.57	1.60	1.55	1.57
5649.	7.83	2.53	1.55	1.58	1.58	1.56	1.58
5669.	7.83	2.51	1.56	1.58	1.59	1.56	1.58
5710.	7.83	2.54	1.55	1.57	1.58	1.56	1.58
5745.	7.86	2.54	1.56	1.58	1.60	1.56	1.59
5774.	7.85	2.56	1.56	1.57	1.59	1.56	1.58
5803.	7.80	2.56	1.55	1.57	1.58	1.55	1.57

90.

XERO
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END OF
DISCHARGE

END OF
CHARGE

PACK NO. 98
GOULD 20 A.H.

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO. VOLTAGE 10.00

CYCLE NO.	PACK VOLTAGE	CURRENT	DEPTH OF DISCHARGE 25 PERCENT OF RECHARGE 115				
			1	2	3	4	5
5134.	4.85	9.92	1.20	1.25	1.20	1.24	.00
5166.	4.78	10.06	1.18	1.24	1.18	1.23	.00
5202.	4.75	10.04	1.17	1.23	1.17	1.22	.00
5226.	4.75	10.03	1.17	1.23	1.18	1.22	.00
5297.	4.75	10.07	1.17	1.23	1.18	1.22	.00
5326.	4.69	10.00	1.11	1.18	1.13	1.18	.00
5417.	4.63	9.89	1.12	1.20	1.14	1.19	.00
5456.	4.64	9.75	1.12	1.21	1.15	1.20	.00
5476.	4.61	9.41	1.12	1.20	1.14	1.19	.00
5517.	4.68	8.39	1.14	1.22	1.16	1.20	.00
5552.	4.77	10.07	1.17	1.23	1.18	1.22	.00
5581.	4.76	10.02	1.16	1.23	1.17	1.22	.00
5610.	4.71	10.01	1.16	1.23	1.11	1.23	.00

CYCLE NO.	PACK VOLTAGE	CURRENT	DEPTH OF DISCHARGE 25 PERCENT OF RECHARGE 115				
			1	2	3	4	5
5134.	6.44	3.84	1.63	1.57	1.60	1.68	.00
5166.	6.28	3.27	1.59	1.55	1.57	1.59	.00
5202.	6.28	3.45	1.60	1.55	1.57	1.59	.00
5226.	6.30	3.58	1.60	1.56	1.58	1.60	.00
5297.	6.25	3.08	1.59	1.55	1.57	1.58	.00
5326.	6.22	3.30	1.59	1.54	1.56	1.57	.00
5417.	6.12	3.79	1.56	1.50	1.54	1.54	.00
5456.	6.10	3.86	1.56	1.50	1.54	1.54	.00
5476.	6.07	3.98	1.58	1.55	1.49	1.53	.00
5517.	6.29	4.61	1.63	1.53	1.58	1.59	.00
5552.	6.31	3.45	1.61	1.55	1.58	1.60	.00
5581.	6.25	3.21	1.59	1.55	1.57	1.58	.00
5610.	6.24	3.30	1.58	1.54	1.57	1.56	.00

91.

XERO
COPY

PACK NO. 112
GOULD 20 A.H.

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT	DEPTH OF DISCHARGE PERCENT OF RECHARGE					END OF DISCHARGE
			1	2	3	4	5	
5005.	3.99	5.33	.08	.36	1.29	1.25	1.22	
5044.	3.30	6.00	.00	.00	1.22	1.16	.97	
5005.	7.57	4.80	1.38	1.52	1.47	1.60	1.64	
5044.	4.64	4.02	.00	.00	1.51	1.74	1.42	

100% TYPICAL OFF CYCLE MANUFACTURE
OR VOLTAGE LIMIT 1.0 VEC. 21.

XERO
COPY

92.

XERO
COPY

CYCLE NO.	PACK NO.	PACK VOLTAGE	CURRENT	DEPTH OF DISCHARGE 15 PERCENT OF RECHARGE 115					TEST TEMPERATURE 0 C ORBIT PERIOD 3 HOURS		
				1	2	3	4	5	CELL VOLTAGES	END OF DISCHARGE	
2682.	6.20	6.06	1.26	1.25	1.22	1.26	1.26	1.26			
2715.	6.21	6.05	1.25	1.25	1.22	1.27	1.27	1.27			
2751.	6.20	6.04	1.26	1.25	1.22	1.27	1.27	1.27			
2779.	6.18	6.10	1.24	1.24	1.21	1.25	1.25	1.26			
2824.	6.17	6.11	1.25	1.25	1.21	1.26	1.26	1.26			
2860.	6.18	6.08	1.25	1.25	1.22	1.26	1.26	1.26			
2883.	6.16	6.13	1.25	1.24	1.20	1.26	1.26	1.26			
									END OF CHARGE		
2682.	7.73	1.10	1.53	1.57	1.58	1.54	1.56	1.56			
2715.	7.77	1.13	1.54	1.58	1.59	1.55	1.56	1.56			
2751.	7.71	1.04	1.53	1.57	1.57	1.54	1.56	1.56			
2779.	7.70	1.07	1.54	1.57	1.58	1.54	1.56	1.56			
2824.	7.71	1.02	1.53	1.56	1.57	1.53	1.56	1.56			
2860.	7.70	1.04	1.53	1.56	1.57	1.54	1.56	1.56			
2883.	7.80	.95	1.52	1.59	1.61	1.54	1.57	1.57			

93.

XEROX COPY
PACK NO. 94
GOULD 20 A.H.

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT	DEPTH OF DISCHARGE 25 PERCENT OF RECHARGE 115					END OF DISCHARGE
			1	2	3	4	5	
2553.	6.11	9.66	1.25	1.22	1.21	1.23	1.22	
2586.	6.08	9.91	1.25	1.22	1.21	1.23	1.22	
2622.	6.08	9.95	1.25	1.23	1.22	1.23	1.22	
2650.	6.07	9.95	1.24	1.22	1.22	1.23	1.22	
2695.	6.03	9.76	1.23	1.21	1.20	1.22	1.21	
2731.	6.02	9.78	1.23	1.21	1.20	1.22	1.21	
2754.	6.08	9.78	1.24	1.22	1.21	1.23	1.22	
		2.30	1.52	1.51	1.61	1.60	1.60	END OF CHARGE
2553.	7.83	1.70	1.53	1.52	1.63	1.62	1.62	
2586.	7.88	1.80	1.53	1.52	1.62	1.62	1.61	
2622.	7.86	1.61	1.53	1.53	1.62	1.62	1.61	
2650.	7.72	1.73	1.51	1.49	1.59	1.57	1.58	
2695.	7.63	1.87	1.49	1.48	1.58	1.55	1.56	
2731.	7.58	1.83	1.48	1.48	1.57	1.54	1.55	
2754.	7.78	1.73	1.50	1.49	1.62	1.58	1.62	

94.

XEROX COPY

XERO
COPY

PACK NO. 105
GOULD 20 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 10.00	1	2	3	CELL VOLTAGES
						4 5
2610.	5.94	10.09	1.17	1.20	1.21	1.21 1.20
2638.	5.90	10.16	1.16	1.19	1.20	1.20 1.20
2679.	5.92	10.09	1.17	1.20	1.21	1.21 1.21
2711.	5.92	10.06	1.17	1.20	1.21	1.21 1.21
2736.	5.90	10.05	1.17	1.19	1.20	1.20 1.20

END OF
DISCHARGE

2610.	7.38	2.50	1.52	1.47	1.48	1.47 1.48
2638.	7.34	2.46	1.50	1.46	1.47	1.46 1.47
2679.	7.36	2.45	1.51	1.47	1.48	1.47 1.48
2711.	7.37	2.47	1.51	1.47	1.48	1.47 1.49
2736.	7.38	2.48	1.51	1.47	1.48	1.47 1.49

XERO
COPY

95.

PACK NO. 108
GOULD 20 A.H.

DEPTH OF DISCHARGE 15 C
PERCENT OF RECHARGE 160
TEST TEMPERATURE 40 C
ORBIT PERIOD 3 HOURS

CYCLE NO. PACK VOLTAGE 6.00 CURRENT

	1	2	3	4	5
2513.	6.01	6.06	1.21	1.20	1.22
2546.	6.01	6.08	1.21	1.20	1.22
2582.	6.01	6.08	1.21	1.20	1.22
2610.	5.85	6.04	1.19	1.18	1.20
2655.	6.00	6.05	1.21	1.20	1.21
2691.	6.00	6.03	1.21	1.20	1.22
2714.	5.98	6.06	1.21	1.19	1.21

	1	2	3	4	5
2513.	7.19	1.92	1.49	1.44	1.44
2546.	7.19	1.58	1.44	1.45	1.45
2582.	7.20	1.46	1.45	1.45	1.44
2610.	7.10	1.45	1.45	1.45	1.43
2655.	7.23	1.40	1.45	1.45	1.45
2691.	7.21	1.43	1.45	1.44	1.46
2714.	7.23	1.42	1.45	1.45	1.42

END OF
DISCHARGE

XERO

XERO

96.

PACK NO. 79
GULTON 6 A.H.

TEST TEMPERATURE 25 C
ORBIT PERIOD 24 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT	DEPTH OF DISCHARGE PERCENT OF RECHARGE			END OF DISCHARGE
			1	2	3	
274.	3.07	2.65	.00	1.04	.00	1.06
284.	2.59	2.30	.00	.95	.00	.92
292.	2.78	2.49	.00	1.00	.00	1.01
						END OF CHARGE
274.	4.21	.26	.00	1.39	.00	1.39
284.	4.22	.26	.00	1.40	.00	1.40
292.	4.17	.26	.00	1.38	.00	1.37
						END OF CHARGE

97.

PACK NO. 93 MFR. S.M. CAPACITY 10 A.H.	DEPTH OF DISCHARGE: 50% PERCENT OF RECHARGE: 200%	TEST TEMPERATURE: 40°C ORBIT PERIOD: 24 HOURS
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PACK 92 NOT CYCLED THIS MONTH DUE TO CELL FAILURE AND MEMORY EFFECT. TESTING RESUMED 28 JAN 65 WITH CELL NO. 2 REMOVED, AND WITH PERCENT OF RECHARGE INCREASED TO 100%.

98

PACK NO. 95
GULTON 50 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115
TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE 25.0	CURRENT	CELL VOLTAGES				
			1	2	3	4	5
3048.	3.26	24.78	1.16	1.22	.00	1.04	.00
3086.	3.21	24.49	1.15	1.21	.00	1.00	.00
3112.	3.25	24.59	1.15	1.21	.00	1.05	.00
3144.	3.27	24.42	1.15	1.20	.00	1.07	.00
3179.	3.27	24.33	1.15	1.19	.00	1.08	.00
3216.	3.26	24.48	1.14	1.18	.00	1.06	.00
			14.38				
3048.	4.78	14.18	1.62	1.68	.00	1.43	.00
3086.	4.78	14.17	1.64	1.66	.00	1.43	.00
3112.	4.69	12.95	1.62	1.60	.00	1.42	.00
3144.	4.61	13.30	1.63	1.51	.00	1.43	.00
3179.	4.59	14.18	1.63	1.47	.00	1.43	.00
3216.	4.53	14.30	1.61	1.45	.00	1.42	.00

99.

PACK NO. 275 MFR. DELCO CAPACITY 440 A.H.	DEPTH OF DISCHARGE: 25 %	TEST TEMPERATURE: 25°C ORBIT PERIOD: 24 HOURS
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100.

PACK NO. 204
GULTON 4 A.H.

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	DEPTH OF DISCHARGE 25					END OF CHARGE
			1	2	3	4	5	
2365.	5.90	1.99	1.19	1.17	1.20	1.19	1.20	
2403.	5.87	2.00	1.18	1.17	1.18	1.18	1.19	
2429.	5.85	2.00	1.17	1.16	1.18	1.18	1.19	
2461.	5.90	1.99	1.19	1.17	1.19	1.19	1.20	
2496.	5.86	2.00	1.17	1.17	1.19	1.19	1.20	
2533.	5.88	2.00	1.18	1.17	1.19	1.19	1.20	
2557.	5.82	2.02	1.16	1.15	1.17	1.18	1.18	
2611.	5.84	2.01	1.16	1.16	1.18	1.18	1.19	
2652.	5.78	2.01	1.15	1.14	1.17	1.17	1.18	
2692.	5.84	1.99	1.17	1.16	1.18	1.18	1.19	
2720.	5.75	2.00	1.14	1.14	1.16	1.16	1.18	
2748.	5.76	2.00	1.15	1.14	1.16	1.16	1.18	
2781.	5.72	2.01	1.14	1.13	1.16	1.16	1.18	
2812.	5.84	2.01	1.17	1.16	1.17	1.18	1.19	
2852.	5.85	2.00	1.18	1.17	1.18	1.19	1.19	
								END OF CHARGE
2365.	7.29	1.24	1.46	1.47	1.47	1.46	1.47	
2403.	7.28	1.24	1.46	1.47	1.45	1.46	1.47	
2429.	7.29	1.23	1.46	1.47	1.46	1.47	1.48	
2461.	7.29	1.26	1.47	1.47	1.46	1.47	1.48	
2496.	7.30	1.28	1.46	1.46	1.46	1.46	1.47	
2533.	7.28	1.26	1.47	1.46	1.46	1.45	1.47	
2557.	7.28	1.27	1.46	1.46	1.45	1.46	1.48	
2611.	7.26	1.26	1.46	1.46	1.45	1.46	1.47	
2652.	7.25	1.26	1.46	1.46	1.44	1.46	1.47	
2692.	7.28	1.26	1.46	1.47	1.46	1.47	1.49	
2720.	7.26	1.22	1.46	1.46	1.45	1.46	1.48	
2748.	7.25	1.11	1.46	1.46	1.45	1.46	1.48	
2781.	7.25	1.12	1.46	1.46	1.47	1.47	1.47	
2812.	7.32	1.25	1.47	1.47	1.46	1.46	1.49	
2852.	7.29	1.26	1.47	1.47	1.47	1.45	1.48	

101.

PACK NO. 214
GULTON 4 A.H.

DEPTH OF DISCHARGE 40
PERCENT OF RECHARGE 125
TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	1	2	CELL VOLTAGES			END OF DISCHARGE
					3	4	5	
2293.	5.77	3.08	1.16	1.17	1.17	1.15	1.18	
2325.	5.64	3.12	1.13	1.13	1.14	1.13	1.15	
2361.	5.60	3.16	1.13	1.12	1.14	1.11	1.13	
2375.	5.74	3.21	1.15	1.17	1.16	1.15	1.15	
2395.	5.57	3.17	1.12	1.12	1.14	1.11	1.12	
2436.	5.62	3.21	1.14	1.13	1.14	1.12	1.14	
2471.	5.68	3.18	1.15	1.14	1.15	1.13	1.15	
2500.	5.60	3.19	1.13	1.12	1.14	1.12	1.14	
2529.	5.61	3.19	1.13	1.13	1.12	1.12	1.14	
		2.00	1.49	1.47	1.51	1.49	1.49	
2293.	7.39	2.01	1.49	1.47	1.50	1.49	1.49	
2325.	7.40	1.97	1.49	1.47	1.51	1.49	1.49	
2361.	7.41	2.00	1.49	1.47	1.51	1.49	1.49	
2375.	7.38	1.99	1.49	1.46	1.51	1.48	1.49	
2395.	7.41	1.97	1.49	1.47	1.52	1.49	1.49	
2436.	7.42	1.95	1.49	1.47	1.52	1.49	1.50	
2471.	7.41	1.97	1.49	1.47	1.52	1.48	1.49	
2500.	7.42	1.97	1.49	1.47	1.53	1.49	1.50	
2529.	7.42	1.96	1.49	1.47	1.52	1.49	1.49	

102.

XERO
COPY

XERO
COPY

PACK NO. 228
GULTON 4 A.H.

TEST TEMPERATURE 15
DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	CURRENT 1.2	CELL Voltages				
				1	2	3	4	5
2366.	5.99	1. 3	1.22	1.22	1.22	1.18	1.22	1.22
2404.	5.98	1.20	1.21	1.21	1.21	1.17	1.21	1.21
2430.	5.98	1.20	1.21	1.21	1.21	1.17	1.21	1.22
2462.	6.01	1.20	1.22	1.22	1.22	1.18	1.22	1.22
2497.	5.99	1.19	1.22	1.22	1.22	1.19	1.22	1.22
2534.	6.00	1.18	1.23	1.22	1.22	1.18	1.21	1.21
2558.	5.98	1.19	1.21	1.21	1.20	1.17	1.21	1.21
2612.	6.00	1.19	1.22	1.21	1.21	1.17	1.21	1.21
2653.	5.98	1.19	1.21	1.21	1.20	1.17	1.21	1.21
2693.	5.01	1.20	1.22	1.22	1.22	1.18	1.22	1.22
2721.	5.96	1.20	1.21	1.21	1.21	1.17	1.21	1.21
2749.	6.00	1.20	1.22	1.22	1.21	1.18	1.22	1.22
2782.	5.99	1.19	1.22	1.22	1.21	1.17	1.21	1.21
2813.	5.99	1.19	1.22	1.22	1.21	1.18	1.21	1.21
2853.	5.98	1.20	1.22	1.21	1.21	1.18	1.21	1.21
2366.	7.08	.81	1.43	1.42	1.43	1.43	1.43	1.43
2404.	7.12	.97	1.43	1.43	1.42	1.43	1.43	1.43
2430.	7.11	.95	1.43	1.43	1.43	1.43	1.43	1.43
2462.	7.11	.94	1.43	1.43	1.43	1.43	1.43	1.43
2497.	7.10	.91	1.43	1.42	1.43	1.43	1.43	1.43
2534.	7.07	.93	1.40	1.39	1.40	1.40	1.40	1.40
2553.	7.13	.94	1.44	1.43	1.43	1.43	1.43	1.43
2612.	7.11	.97	1.43	1.42	1.43	1.43	1.43	1.43
2653.	7.12	.96	1.44	1.43	1.43	1.43	1.43	1.43
2693.	7.12	.93	1.44	1.43	1.43	1.44	1.44	1.44
2721.	7.13	.96	1.44	1.43	1.43	1.44	1.44	1.44
2749.	7.14	.94	1.44	1.43	1.44	1.44	1.44	1.44
2782.	7.13	.93	1.44	1.43	1.43	1.44	1.44	1.44
2813.	7.13	.92	1.44	1.43	1.43	1.44	1.44	1.44
2853.	7.09	.93	1.43	1.42	1.42	1.42	1.43	1.43

103.

PACK NO. 240
GULTON 4 A. H.

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	DEPTH OF DISCHARGE	PERCENT OF RECHARGE	CELL VOLTAGES	END OF DISCHARGE	END OF CHARGE
	2.0	1	2	3	4	5	
2368.	5.60	1.99	1.13	1.14	1.13	1.13	1.13
2406.	5.55	2.00	1.11	1.13	1.12	1.12	1.11
2432.	5.61	2.00	1.13	1.14	1.13	1.13	1.12
2464.	5.66	2.00	1.14	1.14	1.13	1.14	1.13
2499.	5.60	1.99	1.13	1.14	1.13	1.14	1.13
2536.	5.67	1.99	1.12	1.13	1.12	1.14	1.12
2560.	5.59	2.00	1.12	1.13	1.11	1.13	1.11
2614.	5.63	2.00	1.13	1.14	1.13	1.14	1.12
2655.	5.54	2.00	1.11	1.12	1.11	1.12	1.11
2695.	5.69	2.00	1.15	1.15	1.14	1.16	1.14
2723.	5.50	2.00	1.10	1.12	1.10	1.12	1.10
2751.	5.59	2.01	1.12	1.13	1.12	1.14	1.12
2784.	5.59	2.02	1.13	1.14	1.12	1.14	1.12
2815.	5.63	2.01	1.13	1.14	1.12	1.14	1.13
2855.	5.34	2.00	1.07	1.09	1.07	1.07	1.08
2368.	7.20	1.20	1.60	1.45	1.45	1.46	1.45
2406.	7.23	1.35	1.37	1.46	1.45	1.46	1.45
2432.	7.23	1.22	1.36	1.45	1.45	1.46	1.46
2464.	7.22	1.21	1.29	1.45	1.46	1.47	1.47
2499.	7.21	1.18	1.30	1.43	1.42	1.43	1.43
2536.	7.24	1.23	1.33	1.46	1.45	1.46	1.46
2560.	7.24	1.22	1.22	1.45	1.44	1.45	1.45
2614.	7.20	1.22	1.22	1.46	1.45	1.44	1.45
2655.	7.23	1.22	1.22	1.46	1.45	1.46	1.46
2695.	7.23	1.22	1.22	1.46	1.45	1.46	1.46
2723.	7.24	1.33	1.33	1.46	1.46	1.46	1.46
2751.	7.26	1.38	1.38	1.46	1.46	1.47	1.47
2784.	7.26	1.37	1.47	1.47	1.46	1.47	1.47
2815.	7.21	1.09	1.09	1.45	1.45	1.45	1.44
2855.	7.17	1.13	1.13	1.44	1.45	1.45	1.45

104.

PACK NO. 315
GULTON 4 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115
TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	1.2	1	2	3	CELL VOLTAGES	4	5
2510.	5.95	1.19	1.20	1.20	1.20	1.20	1.20	1.20	1.20
2542.	6.32	1.18	1.27	1.27	1.27	1.27	1.27	1.27	1.27
2574.	6.28	1.18	1.26	1.26	1.26	1.26	1.26	1.26	1.26
2636.	6.25	1.19	1.26	1.17	1.27	1.27	1.27	1.27	1.26
2673.	6.25	1.20	1.26	1.26	1.26	1.25	1.25	1.25	1.26
2700.	6.23	1.19	1.25	1.25	1.25	1.25	1.25	1.25	1.25
2750.	6.21	1.19	1.25	1.24	1.25	1.24	1.24	1.24	1.25
2795.	6.22	1.19	1.25	1.25	1.25	1.24	1.24	1.24	1.25
2824.	6.23	1.19	1.26	1.26	1.25	1.25	1.25	1.25	1.25
2854.	6.23	1.19	1.25	1.25	1.26	1.25	1.25	1.25	1.25
2893.	6.23	1.19	1.25	1.25	1.26	1.25	1.25	1.25	1.25
2930.	6.25	1.20	1.25	1.25	1.26	1.25	1.25	1.25	1.25
2949.	6.21	1.20	1.25	1.25	1.25	1.25	1.25	1.25	1.25
2986.	6.33	1.19	1.26	1.25	1.25	1.25	1.25	1.25	1.25
2510.	6.91	.69	1.39	1.39	1.39	1.39	1.39	1.39	1.39
2542.	7.70	.67	1.54	1.55	1.54	1.55	1.55	1.55	1.55
2574.	7.71	.66	1.55	1.55	1.55	1.55	1.55	1.55	1.55
2636.	7.75	.66	1.55	1.55	1.55	1.55	1.55	1.55	1.55
2673.	7.73	.65	1.55	1.55	1.55	1.55	1.55	1.55	1.55
2700.	7.74	.67	1.55	1.55	1.54	1.54	1.54	1.54	1.54
2750.	7.72	.67	1.55	1.55	1.54	1.54	1.54	1.54	1.54
2795.	7.70	.59	1.54	1.55	1.53	1.53	1.53	1.53	1.53
2824.	7.69	.55	1.55	1.55	1.54	1.54	1.54	1.54	1.54
2854.	7.69	.55	1.55	1.55	1.54	1.54	1.54	1.54	1.54
2893.	7.69	.55	1.54	1.55	1.54	1.54	1.54	1.54	1.54
2930.	7.69	.55	1.54	1.55	1.54	1.54	1.54	1.54	1.54
2949.	7.69	.56	1.54	1.55	1.53	1.53	1.53	1.53	1.53
2986.	7.70	.56	1.54	1.55	1.54	1.54	1.54	1.54	1.54

105.

XERO
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END OF
DISCHARGE

PACK NO. 326
GULTON 4 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115
TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	VOLTAGE	PACK CURRENT	CELL VOLTAGES				
			2.0	1	2	3	4
2514.	6.04	1.98	1.21	1.22	1.21	1.20	1.20
2582.	6.03	1.98	1.21	1.21	1.21	1.20	1.21
2606.	5.86	1.98	1.23	1.23	1.07	1.23	1.23
2638.	5.99	1.99	1.20	1.21	1.20	1.20	1.20
2677.	6.09	1.99	1.21	1.21	1.20	1.19	1.20
2754.	5.99	1.97	1.20	1.21	1.20	1.19	1.20
2797.	6.02	1.99	1.20	1.21	1.20	1.19	1.20
2836.	6.05	1.99	1.21	1.22	1.21	1.20	1.21
2897.	6.03	1.99	1.21	1.21	1.21	1.20	1.21
2932.	6.05	1.98	1.21	1.22	1.21	1.20	1.21
2961.	6.04	1.99	1.21	1.21	1.21	1.20	1.21
2990.	6.00	1.98	1.21	1.21	1.20	1.19	1.20
2514.	7.83	1.15	1.58	1.56	1.57	1.58	1.57
2582.	7.85	1.02	1.58	1.55	1.57	1.58	1.57
2606.	7.82	1.03	1.58	1.56	1.58	1.59	1.57
2638.	7.81	1.05	1.57	1.55	1.57	1.58	1.56
2677.	7.74	.73	1.55	1.54	1.55	1.55	1.54
2754.	7.82	.93	1.57	1.54	1.57	1.57	1.56
2797.	7.83	.94	1.57	1.54	1.57	1.57	1.56
2836.	7.83	.90	1.58	1.55	1.57	1.58	1.57
2897.	7.83	.89	1.57	1.55	1.57	1.58	1.57
2932.	7.82	.94	1.57	1.55	1.57	1.58	1.57
2961.	7.82	.90	1.57	1.55	1.57	1.58	1.56
2990.	7.78	.91	1.57	1.55	1.57	1.58	1.56

106.

PACK NO. 301
GULTON 12 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO. PACK VOLTAGE 6.00

CURRENT 1 2 3

CELL VOLTAGES 4 5

END OF
DISCHARGE

189.	6.11	6.04	1.23	1.24	1.23	1.23	1.22
221.	6.11	6.03	1.23	1.23	1.22	1.22	1.22
226.	6.12	5.92	1.23	1.23	1.23	1.23	1.22
315.	6.14	5.97	1.24	1.24	1.18	1.24	1.24
352.	6.11	6.02	1.23	1.24	1.22	1.23	1.22
379.	6.08	6.02	1.22	1.23	1.22	1.22	1.22
429.	6.07	5.98	1.22	1.22	1.22	1.22	1.21
474.	6.09	6.00	1.22	1.22	1.21	1.22	1.21
503.	6.12	5.91	1.23	1.23	1.22	1.23	1.22
533.	6.11	5.90	1.23	1.23	1.22	1.23	1.22
572.	6.11	5.91	1.23	1.23	1.23	1.23	1.22
609.	6.13	5.94	1.23	1.24	1.23	1.23	1.22
628.	6.09	5.93	1.22	1.22	1.22	1.22	1.22

END OF
CHARGE

189.	7.77	2.20	1.55	1.56	1.55	1.60	1.54
221.	7.75	2.19	1.55	1.56	1.54	1.58	1.54
226.	7.77	2.20	1.55	1.56	1.54	1.60	1.55
315.	7.79	2.32	1.55	1.56	1.54	1.59	1.54
352.	7.76	2.20	1.55	1.56	1.54	1.59	1.54
379.	7.78	2.31	1.56	1.56	1.54	1.60	1.55
429.	7.76	2.26	1.55	1.56	1.54	1.59	1.55
474.	7.79	2.28	1.55	1.56	1.54	1.59	1.55
503.	7.77	2.20	1.55	1.56	1.54	1.60	1.55
533.	7.79	2.21	1.55	1.56	1.54	1.60	1.55
572.	7.78	2.26	1.55	1.56	1.55	1.60	1.55
609.	7.77	2.25	1.55	1.56	1.54	1.60	1.56
628.	7.78	2.26	1.55	1.56	1.54	1.60	1.55

107.

XERO
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PACK NO. 227
GULTON 12 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125
TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	1	2	3	CELL VOLTAGE	END OF DISCHARGE
6. 48.	6.25 6.14	5.89 6.07	1.26 1.24	1.26 1.24	1.26 1.23	1.26 1.24	1.26 1.24
6. 48.	7.25 7.23	3.75 3.75	3.75 3.75	1.46 1.45	1.45 1.45	1.45 1.45	1.47 1.46

108.

XERO^{COPIY}

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PACK NO. 296
GULTON 12 A.H.

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

DEPTH OF DISCHARGE 40
PERCENT OF RECHARGE 125

CYCLE NO. VOLTAGE 9.60 PACK CURRENT

1 2 3 CELL VOLTAGES

CYCLE NO.	PACK VOLTAGE 9.60	CURRENT 1	CURRENT 2	CURRENT 3	CELL VOLTAGES 4	CELL VOLTAGES 5	END OF DISCHARGE
412.	5.22	8.52	1.14	1.03	1.02	.99	1.10
444.	5.10	8.34	1.12	1.01	.98	.96	1.08
476.	5.15	8.43	1.11	1.01	1.01	.99	1.08
538.	5.15	8.49	1.10	.89	1.04	1.02	1.06
575.	5.46	8.91	1.12	1.10	1.10	1.10	1.11
602.	5.37	8.83	1.11	1.08	1.07	1.07	1.09
652.	4.96	8.09	1.06	.96	.99	.99	.99
697.	5.19	8.49	1.06	1.03	1.04	1.05	1.03
726.	4.62	7.49	1.04	.93	.87	.90	.92
756.	4.62	7.50	1.03	.94	.89	.92	.90
795.	5.12	8.34	1.06	1.03	1.03	1.03	1.03
832.	5.33	8.65	1.08	1.06	1.07	1.08	1.09
851.	5.40	9.42	1.12	1.07	1.07	1.08	1.08
889.	5.38	9.46	1.14	1.08	1.03	1.07	1.10

CYCLE NO.	PACK VOLTAGE 9.60	CURRENT 1	CURRENT 2	CURRENT 3	CELL VOLTAGES 4	CELL VOLTAGES 5	END OF CHARGE
412.	7.28	6.09	1.46	1.47	1.46	1.46	1.47
444.	7.28	6.10	1.46	1.47	1.46	1.46	1.47
476.	7.28	6.09	1.46	1.47	1.46	1.46	1.47
538.	7.31	6.05	1.47	1.47	1.47	1.46	1.47
575.	7.32	6.10	1.48	1.48	1.47	1.47	1.49
602.	7.26	4.89	1.46	1.46	1.46	1.45	1.47
652.	7.24	4.90	1.46	1.45	1.45	1.45	1.46
697.	7.28	4.81	1.46	1.46	1.45	1.45	1.47
726.	7.26	4.83	1.46	1.46	1.46	1.45	1.47
756.	7.28	4.80	1.47	1.46	1.46	1.46	1.47
795.	7.28	4.76	1.47	1.47	1.46	1.46	1.47
832.	7.24	5.12	1.45	1.45	1.45	1.44	1.46
851.	7.32	5.16	1.47	1.46	1.45	1.46	1.47
889.	7.31	4.93	1.48	1.47	1.46	1.46	1.48

109.

XEROX
DATA

XEROX

PACK NO. 78
GULTON 12 A.H.

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

CYCLE NO. VOLTAGE 3.60 PACK CURRENT 1

CELL VOLTAGES 5 4 3 2 1

149°	6.02	3.55	1.23	1.23	1.13 1.24
179°	5.97	3.64	1.23	1.22	1.12 1.24
215°	5.93	3.63	1.22	1.22	1.09 1.23
283°	5.89	3.61	1.22	1.22	1.07 1.22
312°	5.88	3.63	1.22	1.22	1.06 1.22
347°	5.85	3.63	1.21	1.20	1.05 1.22
395°	5.84	3.61	1.21	1.20	1.03 1.21
432°	5.85	3.60	1.21	1.20	1.04 1.22
471°	5.80	3.62	1.21	1.20	1.02 1.21
506°	5.82	3.58	1.21	1.20	1.03 1.22
532°	5.80	3.61	1.21	1.20	1.02 1.21
565°	5.84	3.60	1.21	1.20	1.06 1.21
596°	5.80	3.57	1.21	1.20	1.02 1.21
638°	5.78	3.58	1.21	1.20	1.02 1.21

149°	7.03	2.88	1.42	1.41	1.41 1.42
179°	7.05	2.88	1.43	1.42	1.42 1.43
215°	7.03	2.87	1.41	1.41	1.41 1.42
283°	7.03	2.87	1.42	1.41	1.42 1.42
312°	7.03	2.87	1.41	1.41	1.42 1.42
347°	7.02	2.88	1.41	1.41	1.42 1.42
395°	7.04	2.88	1.41	1.41	1.41 1.42
432°	7.06	2.88	1.42	1.41	1.42 1.42
471°	7.06	2.88	1.42	1.41	1.43 1.42
506°	7.06	2.88	1.42	1.41	1.43 1.42
532°	7.06	2.89	1.42	1.41	1.44 1.43
565°	7.08	2.92	1.42	1.41	1.44 1.42
596°	7.08	2.91	1.42	1.41	1.44 1.42
638°	7.05	2.91	1.41	1.41	1.43 1.42

110.

XEROX

XEROX
PACK NO. 290
GULTON 12 A.H.

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	DEPTH OF DISCHARGE PERCENT OF RECHARGE					TEST TEMPERATURE 40 C ORBIT PERIOD 90 MIN.			
			1	2	3	4	5	6	7	8	9
416.	5.34	6.01	1.10	1.08	1.05	1.06	1.10	1.02	1.07	1.02	1.07
448.	5.16	5.97	1.07	1.04	1.00	1.02	1.06	1.02	1.06	1.02	1.06
484.	5.14	5.97	1.06	1.03	1.00	1.02	1.06	1.02	1.06	1.02	1.06
508.	5.16	5.98	1.07	1.04	1.01	1.02	1.06	1.02	1.06	1.02	1.05
540.	5.17	5.97	1.04	1.05	1.02	1.02	1.05	1.02	1.05	1.01	1.03
579.	5.06	5.95	1.02	1.04	1.00	1.01	1.03	1.00	1.03	1.00	1.02
608.	5.01	5.99	1.00	1.00	.97	1.00	1.00	1.00	1.00	1.00	1.02
699.	5.15	5.97	1.04	1.04	1.01	1.04	1.03	1.04	1.03	1.04	1.03
738.	5.43	6.00	1.10	1.10	1.09	1.09	1.09	1.09	1.09	1.09	1.09
758.	5.07	5.98	1.02	1.02	1.02	1.01	1.04	1.04	1.02	1.04	1.02
799.	5.40	6.00	1.09	1.10	1.09	1.09	1.09	1.09	1.09	1.09	1.09
834.	5.51	5.92	1.12	1.11	1.11	1.10	1.11	1.11	1.12	1.11	1.12
863.	5.25	5.97	1.06	1.06	1.06	1.05	1.07	1.07	1.05	1.07	1.05
892.	5.33	5.96	1.08	1.08	1.08	1.07	1.09	1.09	1.06	1.09	1.06
416.	16	4.80	1.44	1.44	1.43	1.43	1.43	1.43	1.43	1.43	1.43
448.	15	4.65	1.44	1.44	1.43	1.43	1.43	1.43	1.43	1.43	1.42
484.	17	4.67	1.44	1.44	1.43	1.43	1.43	1.43	1.43	1.43	1.43
508.	18	4.69	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.43
540.	15	4.47	1.43	1.43	1.43	1.42	1.42	1.42	1.42	1.42	1.42
579.	16	4.33	1.44	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43
608.	21	4.90	1.45	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44
699.	19	4.83	1.44	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43
738.	22	4.86	1.45	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44
758.	21	4.84	1.45	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44
799.	22	4.88	1.45	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44
834.	20	4.81	1.45	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44
863.	23	4.82	1.45	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44
892.	21	4.80	1.45	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44

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